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YAL GARDENS, KEW.

Milliam Mayon HAND-LIST (906

OF

ERNS AND FERN ALLIES

CULTIVATED IN

THE ROYAL GARDENS.



LONDON:

SOLD AT THE ROYAL GARDENS, KEW.

PRINTED FOR HER MAJESTY'S STATIONERY OFFICE, BY EYRE AND SPOTTISWOODE,

PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY.

1895.

Price Sixpence.



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K43X Bot.

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PREFACE.

THE general purpose of the series of Hand-lists of the plants cultivated in the Royal Gardens which is in course of publication, and of which the present one is a part, is sufficiently indicated in the preface to that which enumerates the Trees and Shrubs.

The collection of Ferns, whether tropical or temperate, is perhaps, next to that of Palms, the most important feature of the cultivation under glass in the Royal Gardens.

A special interest attaches to it, because it has been used so much in the preparation of most of the books and papers dealing with ferns which have been published in this country during the last half century. The celebrated botanical artist, Francis Bauer, was resident draughtsman for 50 years (1790-1840) to the Royal Botanic Garden at Kew, and the beautiful series of analytical drawings of ferns which he made were published by Sir William Hooker, after his death in 1842, with descriptive letter-press and additions, under the title of Genera Filicum. During the 25 years (1840-1865) for which Sir William Hooker was the director of the gardens his attention was specially concentrated on ferns. Under the title of Species Filicum he published an elaborate work in five volumes, in which all the known species of typical ferns are fully described, and their synonymy and geographical distribution worked out, with copious illustrations by Mr. Walter Fitch.

Of this, the first volume appeared in 1846, and the last in 1864. He planned also a condensed hand-book of all the known ferns, to be called Synopsis Filicum, intended specially for the use of colonists and travellers. the drawings for this had been made, but the letter-press was not far advanced when he died in the autumn of 1865. It was completed by Mr. J. G. Baker, F.R.S., now Keeper of the Herbarium, in 1868, and a second edition was brought out in 1874. Since that date many hundred new species have been discovered, and a volume of Hooker's Icones Plantarum, containing plates and descriptions of the more interesting of the novelties, was published in 1887. Mr. Baker has also published in the Annals of Betany (1891) a summary of new ferns discovered or described since 1874. The type specimens from which most of the descriptions and plates contained in this series of books have been made are deposited in the Kew Herbarium.

The living collection in the garden owes its completeness very largely to the zeal and assiduity with which the veteran pteridologist, Mr. John Smith, curator of the Royal Gardens from 1841-63, watched over it for more than 40 years.

In his privately printed Records of Kew (pp. 322, 323) he gives the following particulars of its origin and development:—"In the year 1822 I found the collection of ferns at Kew extremely poor, especially as regards tropical species, very many of those introduced in previous years having been lost and very few new ones added. . . . The tender exotic species were more or less of them growing without any arrangement in different houses, and unnamed, their number

amounting to about 40. In 1825 I arranged the tropical species in a group at the end of the then lean-to house . . . now included in the tropical fern house, the area they occupied being 6 ft. by 12 ft. These formed the nucleus of the now great collection. They were successively added to by importations of living plants, as also plants raised from spores obtained from herbarium specimens."

"The collection continued yearly to increase, and in 1846 [1845] I drew up a list of the collection, which was published in an Appendix to the *Botanical Magazine*, for that year; the number then amounted to 400 [378] species. This in 1857 [1856] was followed by another list, entitled 'Catalogue of Cultivated Ferns,' in which 600 [504] species are enumerated."

The principal books published by Mr. Smith are his Ferns, British and Foreign, issued in 1866, which contains a classified list of all the species then known in cultivation, full directions for the cultivation of ferns of the different climatic types and by far the most complete history of their gradual introduction which has ever appeared in print, and his Historia Filicum, issued in 1875, which contains woodcuts of 220 types and gives a full exposition of his views on fern classification.

In 1868 the last published list was prepared by Mr. J. G. Baker. It enumerates 802 species and varieties of ferns and 48 of fern allies.

The present list comprises 1,116 species and varieties of ferns and 97 of fern allies; this is exclusive of British ferns of which 586 varieties are in cultivation.

The collection falls into three great groups:—(i.) Tropical; (ii.) Temperate; and (iii.) Hardy Ferns.

The Tropical Ferns are cultivated in No. II. House.

The TEMPERATE FERNS are cultivated in No. III.; the Filmy Ferns have a separate House (No. II A.) constructed for the special treatment which they require. The fine collection of Temperate Tree ferns is contained in the Temperate House.

The HARDY FERNS are arranged on and about a small rockery, $\frac{7}{E}$ of the Key Plan, and forming the south boundary of Lawn L.

The structural development of the buildings in which the collection is housed has kept pace with its growth. Their history may be given briefly.

The Tropical Fern House (No. II.) is a span-roofed house 129 feet long, 34 feet broad, and 15 feet high in the centre. It has a wide transept on the south side, 40 feet long, 33 feet wide, and 19 feet high.

In 1841 the site of this house was occupied by two lean-to houses used for miscellaneous collections of stove plants. They are enumerated in Dr. Lindley's Report to the Treasury (1838) as Nos. 2 and 3; the former stood to the west and was 50 feet long; the length of the other was 60 feet. It was in No. 2 that, as stated above, John Smith first arranged the nucleus of the collection of Tropical Ferns.

In 1843, No. 2 was doubled and made into a span house.

In 1845, No. 3 was entirely taken down and a new span-roofed house erected in its place. It joined on to

No. 2, which was kept at a somewhat lower temperature, but opened into it through a partition. The centre was filled up with slate shelf staging, and the sides with stone shelves. No. 2 was used as a stove for rare Palms and large Tropical Ferns. No. 3 was at first occupied by the Woburn collection of orchids presented by Her Majesty the Queen; for this purpose it proved eventually unsuited. The orchids were gradually replaced by Aroideæ and Ferns. Ultimately the latter obtained possession of the whole house. According to John Smith (Records, p. 334), "the centre of the house was a raised sloping rockery, amongst which the plants were growing in a natural state, forming fine] bushy specimens."

A small house for tree ferns was built in 1861; this was connected with the principal house in 1868, and now forms the transept.

In 1879 the Tropical Fern House, which from the decay of the timbers had lapsed into an almost ruinous condition, was further severely damaged by the hail storm of August 3rd; 1,152 panes of glass in it were broken. It was subsequently put into a thorough state of repair, but the collections received considerable damage.

In 1887 the west end of the house was set back a few feet; the staging was partly re-arranged and the broad path through the transept was made.

The humid conditions necessary for the cultivation of tropical ferns are unfortunately not conducive to the preservation of the structures in which they are grown when they are built of wood. In 1889 it therefore again became necessary to renew the east wing of No. II. house. In order to secure greater durability it was decided to use iron for the principal framework, and wood only for the lights. The top-ventilation was provided for by means of a lantern instead of by the older and more clumsy method of sliding sashes. At the same time the use of green glass in the re-constructed wing was abandoned. This was introduced at Kew in 1846 on the recommendation of the late Mr Robert Hunt, F.R.S., who advocated its use on theoretical grounds which are now known to be mistaken. The resulting improvement in the growth of the plants, especially the species of Adiantum was very marked, and in 1892 a portion of the west wing was re-glazed with equally satisfactory results.

The TEMPERATE FERNS are now collected in a house (No. III.), which was also built on the system of mixed iron and wood construction. It was erected in 1892 to take the place of a decayed and obsolete structure composed of two small greenhouses united together, Nos. 4 and 5 of Dr. Lindley's Report. The former (the northern wing) was erected in 1803, and in 1840 contained New Holland and Cape plants; the latter, which was "remodelled" in 1825, was filled with succulents.

The reconstructed No. III. is a span-roofed house 60 feet long, 23 feet wide, and 13 feet high. It contains a broad central and two side stages, with paths on both sides.

The north wing of the former No. III. had been latterly devoted almost exclusively to Filmy Ferns after the Kew collection had been enriched by the gift of that formed

by the late John Cooper Forster, which was presented to the Royal Gardens in 1888 by his widow.

The collection is now contained in the new Filmy Fern House (No. II. A.) erected on the north side of No. II. It is 50 feet long by 14 feet wide, with a central path and two cases running the full length of the house.

The Hardy Ferns occupy the rockery originally devoted to Alpine plants (before the construction of the Rock Garden in 1882), and it extends over part of the adjacent ground. A collection was established here in 1874, and the rockery itself was reconstructed in 1888.

The collection as a whole is now probably the richest in existence in garden forms of British species. This is due to the munificent bequest by W. C. Carbonell, Esq., of the extensive collection formed by him at Rhiew Castel, Usk, Monmouthshire. The whole was removed to Kew in 1887. It consisted of 4,261 specimens, many probably unique, besides some hundreds of seedlings.

The total number of well-marked species of ferns and the vascular Cryptogamia (Fern Allies) now mounts up to 3,500. Not more than one-third of these have been brought into cultivation, and Kew is always glad to receive any additions, if possible in the form of well-established plants; if not, in the shape of dry spores, which can be collected and sent very easily by post in small packets.

The following table, which shows the per-centage of the total number of ferns found in different parts of the world was drawn up by Mr. Baker in 1867; but he does not think that the discoveries of the last 20 years will have altered any of the figures materially:—

Arctic Zone	-	1 p	er cent.
Europe	-	4	,,
Temperate Asia, includi	ng		
Himalayas	-	18	,,
Temperate N. America	-	5	,,
Temperate S. Africa -	-	7	,,
Australia and N. Zealand	-	9	27
South temperate America	-	5	"
Tropical Africa	-	15	,,
Tropical Asia	-	39	,,
Tropical America	-	42	,,

The present hand-list is divided into three parts:—

- (i) FERNS proper (pp. 13-133);
- (ii) FERN ALLIES (pp. 135-143); and
- (iii) as an APPENDIX, a list of garden forms of British species (pp. 145-183).

With regard to (i) Ferns proper, the arrangement is alphabetical and synonyms have been only sparingly introduced, those included being chiefly such as are in use in gardens and which are here referred to the correct name in each case. It has not been thought necessary, therefore, to supply an index. Those who wish to pursue the study of fern-nomenclature further may fall back on Hooker and Baker's Synopsis Filicum, upon which the present hand-list is substantially based.

The Fern allies (ii) have also been grouped alphabetically. It has not been thought necessary for the

present purpose to separate them according to a botanical classification.

The cultivated and feral varieties of British Ferns (iii) have been enumerated in an Appendix. Although the collection of them at Kew is very rich they stand in a different position to the collection of recognised and well-determined species. Apart from their intrinsic beauty, which is often striking, they are of considerable scientific interest as showing the range of variation due to crossing and seminal reproduction. The amateurs and cultivators who have raised them have furnished them with Latin names, often cumbrous and fantastic, which have received no formal definition. They cannot, therefore, be fixed or quoted for any scientific purpose; they have, in fact, the same relationship to the species from which they have originated as Bedding Pelargoniums bear to Pelargonium zonale or as the Drumhead and other cabbages to Brassica oleracea.

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I. FERNS.

Acrophorus. See Davallia.

Acrostichum, L.

- A. acuminatum, Hook. Brazil.
- A. alienum, Sw. Tropical America.
- A. apodum, Kaulf. Tropical America.
- A. appendiculatum, Willd. Tropical Asia.
- A. aureum, L. Tropical and sub-tropical regions.
- A. Burchellii, Baker. Brazil.
- A. Cænopteris, Kze. Tropical America.
- A. cervinum, Sw. Tropical America.
- A. conforme, Sw. Tropical and sub-tropical regions.

 Var. alatum (Fée). Tropical and sub-tropical regions.
- A. crassinerve, Kze. See latifolium.
- A. crinitum, L. Tropical America.
- A. crispatulum, Wall. See virens.
- A. decoratum, Kze. West Indies, Guiana, &c.
- A. drynarioides, Hook. Penang, Solomon Isles.
- A. flagelliferum, Wall. Tropical Asia.
- A. gramineum, Baker. West Indies.
- A. Herminieri, Bory. West Indies.
- A. heteromorphum, Kl. Colombia, Ecuador.
- A. hybridum, Bory. Tropical Africa, Tropical America.



Acrostichum, L.-cont.

A. latifolium, Sw. Tropics.

Var. angustifolium, Hort. Tropical America.

Var. callæfolium (Bl.). Tropical Asia.

Var. conopodium, Hort.

Var. crassinerve (Kze.). Brazil.

Var. Sartorii (Liebm.). Mexico.

- A. Lingua, Raddi. Tropical America.
- A. longifolium, Jacq. See latifolium.
- A. luridum, Fée. 'Trinidad, Guiana.
- A. magnum, Baker. Demerara.
- A. melanopus, Kze. Venezuela.
- A. muscosum, Sw. Tropical America.
- A. osmundaceum, *Hook*. Tropical America. Var. frondosum, *Hort*.
- A. pallidum, Baker. West Indies.
- A. peltatum, Sw. Tropical America.
- A. Prestoni, Baker. Rio Janeiro.
- A quercifolium, Retz. Tropical Asia.
- A. repandum, Bl. Tropical Asia. Var. quoyanum (Gaud.). Tropical Asia.
- A. Sartorii, Liebm. See latifolium.
- A. scandens, J. Sm. Tropical America.
- A. simplex, Sw. Cuba to Brazil.
- A. sorbifolium, L. Tropics. Var. buxifolium (Kze.).
- A. spicatum, L. Tropics of Old World.
- A. squamosum, Sw. Tropics.

Acrostichum, L.—cont.

A. Taylori, Bailey. Queensland.

A. tenuifolium, Baker. Mascarene Islands.

A. tomentosum, Bory. Bourbon.

A. undulatum, Willd. See villosum.

A. variabile, Hook. Tropical Asia.

A. villosum, Sw. Tropical America. Var. undulatum (Willd.).

A. virens, Wall. Tropical Asia. Var. crispatulum (Wall.).

A. viscosum, Sw. Tropics.

Actiniopteris, Link.

A. radiata, Link. Tropical Asia, Tropical Africa. Var. australis, (Link).

Adiantopsis. See Cheilanthes.

Adiantum, L.

A. æthiopicum, L. Tropical and south temp. zones.

Var. assimile (Sw.). Australia.

Var. chilense (Kaulf.). Chili.

Var. pellucidum, (M. & G.). Mexico.

Var. scabrum (Kze.).

A. affine, Hook. See diaphanum.

A. amabile, Moore. See Moorei.

A. aneitense, Carruth. Aneiteum.

A. assimile, Sw. See æthiopicum.

A. Bausei, Moore. Garden origin.

A. bellum, Moore. Bermuda.

A. Birkenheadii, Hort. Garden origin.
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Adiantum, L.-cont.

A. *Capillus-veneris, L. Tropical and temp. zones. Var. Lowei, Hort. Crimea. Var. moritzianum (Klotzsch). South America.

A. cardiochlaena, Kze. See polyphyllum.

A. Catherinæ, J. Sm. See trapeziforme.

A. caudatum, L. Tropics everywhere. Var. ciliatum, Hort.

A. Collisii, Moore. Garden origin.

A. colpodes, *Moore*. Tropical America. Var. elegans, *Hort*.

A. concinnum, H.B.K. Tropical America. Var. Flemingii, Hort. Var. latum, Moore.

A. cristatum, L. Trepical America.

A. cultratum, J. Sm. See trapeziforme.

A. cuneatum, L. & F. Tropical America.

Var. æmulum (Moore).

Var. deflexum, Hort.

Var. dissectum, Hort.

Var. elegans, Hort.

Var. elegantissimum, Hort.

Var. fragrantissimum, Hort.

Var. gracillimum (Moore).

Var. grandis, Hort.

Var. grandiceps, Hort.

Var. lambertianum, Hort.

Var. Lawsoni, Hort.

^{*} For garden varieties, see p. 145.

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Adiantum, L.-cont.

A. cuneatum, L. & F. Tropical America—cont.

Var. Legrandi, Hort.

Var. mundulum (Moore).

Var. Pacotti, Hort.

Var. Roenbeckii, Hort.

Var. reginae, Hort.

Var. schizophyllum, Hort.

Var. strictum, Hort.

A. curvatum, Kaulf. Tropical America. Var. brasiliense (Raddi).

- A. cyclosorum, Moore. Andes.
- A. decorum, Moore. See Wagneri.
- A. deflexum. See cuneatum.
- A. diaphanum, Bl. New Zealand, &c.
- A. digitatum, Presl. Brazil, Peru, &c. Var. palmatum (Moore). Var. speciosum, (Hook.).
- A. dolabriforme, Hook. See lunulatum.
- A. dolosum, Kze. Tropical America.
- A. Edgeworthii, Hook. India and China.
- A. elegans, Hort. Garden Origin.
- A. emarginatum, Bory. See ethiopicum.
- A. excisum, Kze. Chili.

Var. Leyi, Hort.

Var. multifidum, Hort.

- A. Fergusoni, Moore. Ceylon.
- A. formosum, R. Br. Australia.
- A. fovearum, Raddi. See tetraphyllum.



Adiantum, L.—cont.

- A. fulvum, Raoul. New Zealand.
- A. Funckii, Hort. See trapeziforme.
- A. glaucophyllum, Hook. Mexico.
- A. grandiceps, Hort. See cuneatum.
- A. Hendersoni, Linden. See tetraphyllum.
- A. henslovianum, Hook. f. Colombia, Peru, &c.
- A. hippocrepis, Hort.
- A. hispidulum, Sw. Tropics, &c. of Old World. Var. tenellum, Moore. Australia.
- A. Hosei, Baker. Borneo.
- A. intermedium, Sw. Tropical America.
- A. Kaulfussii, Kze. Tropical America.
- A. Lathomii, Hort. See tenerum.
- A. Legrandi, Hort. See cuneatum.
- A. luddemannianum, Hort. Garden origin.
- A. lunulatum, Burm. Tropics everywhere. Var. dolabriforme (Hook.).
- A. macrophyllum, Sw. Tropical America. Var. bipinnatum, Jenm. Jamaica. Var. albostriatum, Hort.
- A. magnificum, Hort. See Wagneri.
- A. matthewsianum, Hook. See polyphyllum.
- A. monochlamys, Eaton. Japan.
- A. Moorei, Baker. Andes of Peru.
- A. moritzianum, Klotzsch. See Capillus-veneris.
- A. neo-caledoniæ, Keys. New Caledonia.
- A. neoguineense, Moore. New Guinea.



Adiantum, L.-cont.

A. obliquum, Willd. Tropical America. Var. minus, Hort.

A. Pacotti, Hort. See cuneatum.

A. pellucidum. See athiopicum.

A. pedatum, L. North America, &c.

A. peruvianum, Klotzsch. Peru.

A. polyphyllum, Willd. Tropical America.

A. prionophyllum, H.B.K. See tetraphyllum.

A. pulverulentum, L. Tropical America.

A. reginæ, Hort. See Capillus-veneris.

A. reniforme, L. Madeira and Teneriffe. Var. asarifolium (Willd.). Mauritius.

A. rhodophyllum, Moore. Garden origin.

A. rhomboideum, Hort. See obtusum.

A. Roebelini, Hort.

A. rubellum, Moore. Bolivia.

A. scabrum, Kze. See æthiopicum.

A. scutum, Hort. See tenerum.

A. Seemanni, Hook. Guatemala.

A. sessilifolium, Hook. See henslovianum.

A. setulosum, J. Sm. See diaphanum.

A. speciosum, Hook. See digitatum.

A. tenerum, Sw. Tropical America.

Var. alcicorne, Hort.

Var. Farleyense, Moore.

Var. Lathomii, Hort.

Var. scutum, Hort.

Var. Victoriæ (Moore).



Adiantum, L.-cont.

- A. tetragonum, Schrad. Brazil.
- A. tetraphyllum, Willd. Tropical America. Var. acuminatum, Hort. Var. gracile, Hort.
- A. tinctum, Moore. Tropical America.
- A. trapeziforme, L. Tropical America. Var. Catherinæ, J. Sm. Var. cultratum, J. Sm. Var. Funckii, Hort.
- A. triangulatum, Kaulf. See intermedium.
- A. veitchianum, Moore. Andes of Peru.
- A. Veitchii, Hance. See monochlamys.
- A. velutinum, Moore. Tropical America.
- A. venustum, Don. Himalaya.

 Var. integrifolium, Baker. Himalaya.
- A. Victoriæ, Moore. See tenerum.
- A. villosum. L. Tropical America.
- A. Wagneri, Mett. Andes of Peru. Var. magnificum (Hort.).
- A. Weigandii, Moore. Garden origin.
- A. Williamsii, Moore. Andes.
- A. Wilsoni, Hook. See dolosum.

Aglaomorpha. See Polypodium.

Aleuritopteris. See Cheilanthes.

Allosorus. See Pellæa and Cryptogramme.

Alsophila, R. Br.

A. aculeata, J. Sm. See ferox.



Alsophila, R. Br.—cont.

- A. Andersoni, Scott. Sikkim.
- A. armata, Presl. Tropical America.
- A. aspera, R. Br. West Indies.
- A. atrovirens, Presl. Tropical America.
- A. australis, R. Br. Australia, &c.
- A. Colensoi, Hook. fil. New Zealand.
- A. contaminens, Wall. Java and Malaya.
- A. crinita, Hook. Ceylon, &c.
- A. excelsa, R. Br. Norfolk Island.
- A. ferox, Presl. Tropical America.
- A. glabra, Hook. East Indies.
- A. infesta, Kze. Andes and Brazil. Var. phalerata, Mart.
- A. latebrosa, Hook. East Indies.
- A. leichardtiana, F. Muell. Australia.
- A. Malzinei, Hort. Mexico.
- A. paleolata, Mart. Colombia and Brazil.
- A. phalerata, Mart. See infesta.
- A. podophylla, Hook. Hong Kong.
- A. procera, Kaulf. Tropical America.
- A. pruinata, Kaulf. Tropical America.
- A. radens, Kaulf. Brazil.
- A. Rebeccæ, F. Muell. Rockingham Bay.
- A. Taenitis, Hook. Brazil.
- A. tomentosa, Hook. East Indies.



Alsophila, R. Br.—cont.

A. truncata, Brack. Fiji, &c.

A. Van Geertii, Hort. See Cyathea mexicana.

Amphicosmia. See Hemitelia.

Anapeltis. See Polypodium.

Anchistea. See Woodwardia,

Anemia, Swartz.

A. collina, Raddi. Brazil.

A. dregeana, Kze. Natal.

A. fraxinifolia, Raddi. See Phyllitidis.

A. mandioccana, Raddi. Brazil.

A. Phyllitidis, Sw. Tropical America. Var. fætida, Hort.

A. tomentosa, Sw. Tropical America. Var. fulva, (Sw.).

Anemidictyon. See Anemia.

Anetium. See Hemionitis.

Angiopteris, Hoffm.

A. evecta, Hoffm. Tropics of Old World.

Var. brongniartiana (De Vriese). Tahiti.

Var. hypoleuca (De Vriese). Java.

Var. macrophylla (De Vriese). Java.

Var. miqueliana (De Vriese). Java.

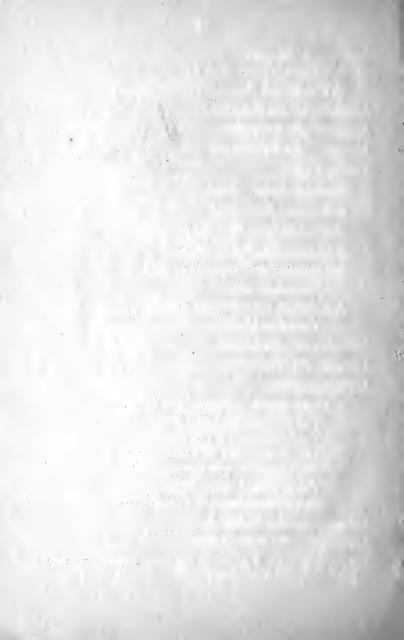
Var. pruinosa (Kze.). Java.

Var. teysmanniana (De Vriese). Java.

Anisogonium. See Asplenium.

Antigramme. See Scolopendrium.

Arthropteris. See Polypodium tenellum, Nephrodium albopunctatum, and Nephrolepis.



Aspidium, Swartz.

A. acrostichoides, Sw. North America. Var. incisum (Hort.).

A. *aculeatum, Sw. Ubiquitous.

Var. angulare (Willd.).

Var. lobatum (Sw.).

Var. moritzianum, (Kze.). South America.

Var. setosum, (Wall.). Himalaya.

Var. tsus-simense (Hook.).

A. amabile, Bl. Japan, &c.

A. angulare, Willd. See aculeatum.

A. anomalum, H. & A. Ceylon.

A. aristatum, Sw. Tropical Asia.

Var. coniifolium (Wall.).

Var. variegatum, Hort.

A. atratum, Wall. See Nephrodium hirtipes.

A. auriculatum, Sw. East Indies.

A. Blumei. See Nephrodium.

A. capense, Willd. S. Temp. zone, &c.

A. caryotideum, Wall. See falcatum.

A. concavum, Hort. See laserpitiifolium.

A. confluens. See Nephrodium.

A. coniifolium, Wall. See aristatum.

A. erythrosorum, Hort. See Nephrodium.

A. Fadyeni. See Fadyenia prolifera.

A. falcatum, Sw. Japan, &c.

Var. caryotideum (Wall.). East Indies, &c.

^{*} For garden varieties, see p. 145.

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Aspidium, Swartz-cont.

- A. falcatum, Sw. Japan, &c.—cont. Var. Fortunei (J. Sm.). Japan. Var. pendulum, Hort.
- A. falcinellum, Sw. Madeira.
- A. flexum, Kze. Juan Fernandez.
- A. frondosum, Lowe. Madeira.
- A. laserpitiifolium, Mett. Japan.
- A. lepidocaulon, Hook. Japan.
- A. lobatum, Sw. See aculeatum.
- A. Lonchitis. Sw. N. temp. zone.
- A. macrophyllum, Hort. See Nephrodium.
- A. marginale. See Nephrodium.
- A. meniscioides, Schrad. Tropical America.
- A. mucronatum, Sw. West Indies.
- A. munitum, Kaulf. W.North America. Var. imbricans, Hort.
- A. Plumieri, Presl. See trifoliatum.
- A. proliferum, R. Br. See aculeatum.
- A. pungens, Kaulf. South Africa.
- A. repandum, Willd. Tropical Asia.
- A. Richardi, Hook. New Zealand.
- A. Standishii, Hort. See laserpitiifolium.
- A. subtriphyllum, Hook. See Nephrodium.
- A. triangulum, Sw. West Indies.
 - Var. ilicifolium, Fee.
- A. trifoliatum, Sw. Tropical America.

Var. Plumieri (Presl.).

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Aspidium, Swartz-cont.

- A. tripteron, Kze. Japan.
- A. uliginosum, Hort. See Nephrodium cristatum.
- A. variolosum, Wall. See Nephrodium.
- A. varium, Sw. Japan, &c.
- A. vestitum, Sw. See aculeatum.

Asplenium, L.

- A. abscissum, Willd. Tropical America.
- A. achilleæfolium, Liebm. Mexico.
- A. Adiantum-nigrum, L. North and South temp. zones. Var. acutum (Willd.).
- A. alatum, H. B. K. Tropical America.
- A. angustifolium, Mich. North America.
- A. anisophyllum, Kze. Natal.
- A. apicidens, Moore. See Vieillardii.
- A. arboreum, Willd. Tropical America.
- A, Arnottii, Baker. Sandwich Islands.
- A. attenuatum, R. Br. Australia. Var. integrum, Hort.
- A. aureum, Link. See Ceterach.
- A. auritum, Sw. Tropical America. Var. macilentum (Kze.). Var. rigidum (Sw.).
- A. australasicum, Hook. See Nidus.
- A. axillare, Ait. See umbrosum.
- A. bantamense, Baker. Tropical Asia.
- A. Baptistii, Hort. See Vieillardii.

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- A. Belangeri, Kze. Malayan Islands.
- A. brachypteron, Kze. Tropical Africa.
- A. Bradleyi, Eaton. North America.
- A. bulbiferum, Forst. Australia, &c.

Var. fabianum (H. & J.).

Var. laxum (R. Br.).

Var. minus, Baker. New Zealand.

- A. caryotaefolium, Hort. See cuneatum.
- A. caudatum, Forst. Tropical and sub-tropical regions.
- A. celtidifolium, Kze. Tropical America.
- A. Ceterach, L. Europe and temp. Asia. Var. aureum (Link).
- A. cicutarium, Sw. Tropical America.
- A. Colensoi, Hook. fil. New Zealand.
- A. compressum, Sw. St. Helena.
- A. conchatum, Moore. West Indies.
- A. contiguum, Kaulf. Polynesia, &c. Var. fissum, Hort.
- A. cordifolium, Mett. Malaya, &c.
- A. costale, Sw. West Indies and Peru.
- A. crenulatum, Baker. Tropical America.
- A. cultrifolium, L. West Indies.
- A. cuneatum, Lam. Tropical America, &c.
- A. decurrens, Bedd. India.
- A. decussatum, Sw. Tropics of Old World.
- A. dilatatum, Hook. See latifolium.

A. dimidiatum, Sw. Tropical America.

A. dimorphum, Kze. Norfolk Island.

A. divaricatum, Kze. Chili and Peru.

A. ebeneum, Ait. Temp. regions.

A. elongatum, Sw. See tenerum.

A. erectum, Bory. See lunulatum.

A. erosum, L. West Indies.

A. esculentum, Presl. Tropical Asia. Var. glabrum, Hort. Var. serampurense (Spr.).

A. fabianum, H. & J. See bulbiferum.

A. falcatum, Lam. Tropics and sub-tropics, Old World. Var. erosum, Hort.

A. fernandezianum, Kze. See lunulatum.

A. fijiense, Brack. Fiji Islands.

A. *Filix-fæmina, Bernh. Ubiquitous.

A. firmum, Kze. See abscissum.

A. flabellifolium, Cav. Australia.

A. flaccidum, Forst. Australia, &c.

A. fontanum, Bernh. North temp. zone.

A. formosum, Willd. Tropical America.

A. fragrans, Sw. Tropical America. Var. feniculaceum (H. B. K.)

^{*} For garden varieties, see p. 157.

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- A. Françonis, Mett. Tropical America.
- A. fraxinifolium, Wall. See bantamense.
- A. furcatum, Thunb. Tropical and sub-tropical regions. Var. tripinnatum, Baker. Natal.
- A. gemmiferum, Schrad. South Africa.
- A. germanicum, Weiss. Europe,
- A. Godmani, Baker. West Indies.
- A. goringianum, Mett. See macrocarpum.
- A. grandifolium, Sw. Tropical America.
- A. griffithianum, Hook. Himalaya.
- A. Hemionitis, L. South Europe and North Africa.
- A. heterocarpum, Wall. East Indies.
- A. heterophlebium, Mett. Himalaya.
- A. hians, Kze. West Indies.
- A. hookerianum, Colenso. New Zealand.
- A. horridum, Kaulf. Sandwich Islands, &c.
- A. incisum, Thb. Japan.
- A. japonicum, Thb. Japan.
- A. Klotzschii, Mett. Colombia and Venezuela.
- A. laffanianum, Baker. Bermuda.
- A. lanceolatum, Huds. Europe.
- A. lanceum, Thunb. Japan.
- A. lasiopteris, Mett. See Peterseni.
- A. latifolium, Don. Tropical Asia.
- A. laxum, R. Br. See bulbiferum.



A. lineatum, Sw. Mauritius. Var. bifidum (Presl).

A. longissimum, Bl. Java, &c.

A. lucidum, Forst. See obtusatum.

A. lunulatum, Sw. Tropics.

Var. erectum (Bory).

Var. lobatum (P. & R.). South Africa.

Var. pteropus (Kaulf.). Tropical America.

Var. fernandezianum (Kze.).

Var. tenellum (Roxb.). St. Helena, &c.

Var. tripinnatifidum, Hort.

A. macilentum, Kze. See auritum.

A. macrocarpum, Bl. Tropical Asia. Var. goringianum (Mett.).

A. macrophyllum, Sw. Tropical Asia.

A. marginatum, L. Tropical America.

A. marinum, L. Europe, &c.
Var. imbricatum, Hort.
Var. ramosum, Hort.

A. maximum, Don. West Indies to Ceylon.

A. Michauxii, Spreng. See Filix feemina.

A. monanthemum, L. Temperate regions.

A. monticolum, Jenm. Jamaica.

A. Nidus, L. Tropics, Old World.
Var. australasicum, (Hook.). Australia.

A. nigripes, Bl. Tropical Asia.

A. nigro-paleaceum, Baker. St. Helena.

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A. niponicum, Mett. Japan. Var. cristatum, Hort.

A. nitens, Sw. Mauritius.

A. nitidum, Sw. East Indies.

A. nobile, Hort. See viviparum.

A. nodulosum, Hort. See lineatum.

A. novæ-caledoniæ, Hook. New Caledonia.

A. obliquum, Forst. See obtusatum.

A. obtusatum, Forst. Australia, &c.
Var. lucidum (Forst.).
Var. Lyallii, Hook. New Zealand.
Var. obliquum (Forst.).

A. obtusifolium, L. Tropical America.

A. obtusilobum, Hook: Polynesia.

A. oligophyllum, Kaulf. Tropical America.

A. paleaceum, R. Br. Tropical Australia.

A. paradoxum, Bl. Java, &c.

A. Peterseni, Kze. East Indies. Var. lasiopteris (Mett.).

A. planicaule, Wall. Himalaya.

A. plantagineum, L. Tropical America.

A. polyodon, Forst. See falcatum.

A. polypodioides, Mett. Tropical Asia.

A. præmorsum, Sw. See furcatum.

A. proliferum, Lam . See decussatum.

A. prolongatum, Hort. See rutæfolium.

A. pteridoides, Baker. Lord Howe's Island.

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- A. pteropus, Kaulf. See lunulatum.
- A. pubescens, Hort. See esculentum.
- A. reclinatum, Moore. See lunulatum.
- A. refractum, Moore. See fontanum.
- A. resectum, Sm. Tropical Asia.
- A. rhizophyllum, Kze. Tropical America.
- A. rhizophorum, L. Tropical America.
- A. rutæfolium, Kze. Ceylon, South Africa, &c. Var. prolongatum (Hook.).
- A. Ruta-muraria, L. North temp. zone.
- A. scandens, J. Sm. New Guinea and Philippines.
- A. Schimperi, A. Br. East Africa.
- A. semihastatum, Kze. Cuba.
- A. septentrionale, Hoffm. North temp. zone.
- A. Serra, L. δ F. Tropical America. Var. natalensis.
- A. serratum, L. Tropical America.
- A. Shepherdi, Spreng. Tropical America.
- A. sinuatum, Beauv. Tropical Africa.
- A. speciosum, Mett. Tropical Asia.
- A. splendens, Kze. South Africa.
- A. squamulatum, Bl. East Indies.
- A. striatum, L. See Shepherdi.
- A. sylvaticum, Presl. Tropics.
- A. tenellum, Roxb. See lunulatum. u 85419.

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A. tenerum, Forst. Malaya, &c. Var. elongatum (Sw.).

A. thelypteroides, Mich. North America.

A. Thwaitesii, A. Br. Ceylon, &c.

A. tomentosum, Hook. East Indies, &c.

A. *Trichomanes, L. Temp. regions.

A. umbrosum, J. Sm. Madeira. Var. tenuifolium, Kirk. New Zealand.

A. vagans, Baker. Isle of St. Thomas.

A. unilaterale, Lam. See resectum.

A. veitchianum, Moore. See Belangeri.

A. Vieillardii, Mett. New Caledonia. Var. apicidens (Moore). Var. Baptistii (Hort.).

A. viride, Huds. North temp. zone.

A. viviparum, Presl. Mauritius. Var. nobile, Hort.

A. zamioides, Hook. See paradoxum.

A. zeylanicum, Hook. Ceylon.

Athyrium. See Asplenium.

Balantium. See Dicksonia.

Blechnum, L.

B. australe, L. South Africa and Madagascar.

B. boreale, Sw. See Lomaria Spicant.

B. brasiliense, Desv. Tropical America. Var. corcovadense (Raddi).

^{*} For garden varieties, see p. 169.

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Blechnum, Linn.-cont.

- B. cartilagineum, Sw. Australia.
- B. corcovadense, Raddi. See brasiliense.
- B. Gilliesii. See Lomaria procera.
- B. glandulosum, Link. See occidentale.
- B. gracile, Kaulf. See longifolium.
- B. hastatum, Kaulf. Temperate South America.
- B. Lanceola, Sw. Tropical America.
- B. latifolium, Hort. See longifolium.
- B. longifolium, H. B. K. Tropical America. Var. fraxineum (Willd.). Var. gracile (Kaulf.).
- B. melanopus, Hook. India.
- B. occidentale, L. Tropical America. Var. glandulosum (Link).
- B. polypodioides, Raddi. See unilaterale.
- B. punctulata. See Lomaria.
- B. rugosum, Moore. Origin unknown.
- B. triangulare, Link. See unilaterale.
- B. unilaterale, Willd. Tropical America.
- B. volubile, Kaulf. Tropical America.

Bolbitis. See Acrostichum.

Botrychium, Swartz.

- B. Lunaria, Sw. Temperate regions.
- B. ternatum, Sw. North and south temp. zones. Var. dissectum, Muhl.
- B. virginianum, Sw. North and south temp. zones.



Brainea, Hook.

B. insignis, Hook. Hong Kong and Khasia.

Cænopteris. See Asplenium.

Callipteris. See Asplenium.

Campyloneuron. See Polypodium.

Camptosorus. See Scolopendrium.

Campteria. See Pteris.

Cassebeera, Kaulf.

C. triphylla, Kaulf. South Brazil.

Cephalomanes. See Trichomanes.

Ceratopteris, Brong.

C. thalictroides, Brong. Tropics.

Ceropteris. See Gymnogramme.

Ceterach. See Asplenium.

Cheilanthes, Swartz.

- C. alabamensis, Baker. North America.
- C. californica, Harv. See Hypolepis.
- C. chlorophylla, Sw. Tropical America.
- C. Clevelandii, Eaton. California.
- C. dicksonioides, Endl. See Hypolepis tenuifolia.
- C. elegans, Desv. See myriophylla.
- C. ellisiana, Hort. See hirta.
- C. farinosa, Kaulf. Tropics everywhere. Var. anceps (Blandf.). Himalaya. Var. punctata, Hort.
- C. fragrans, W. & B. Europe, &c.

Cheilanthes, Swartz.-cont.

C. hirta, Sw. South America. Var. ellisiana, Hort.

C. multifida, Sw. St. Helena.

C. myriophylla, Desv. Tropical America. Var. elegans, (Desv.).

C. profusa, Kze. See Pellæa involuta.

C. pulveracea, Hook. See Nothochlæna sulphurea.

C. radiata, R. Br. Tropical America.

C. spectabilis, Kaulf. See chlorophylla.

C. tomentosa, Link. North Carolina, &c.

C. vestita, Sw. North America.

Chrysodium. See Acrostichum.

Cibotium. See Dicksonia.

Cincinalis. See Nothochlæna.

Cionidium. See Deparia.

Coniogramme. See Gymnogramme.

Craspedaria. See Polypodium.

Cryptogramme, R. Br.

C. crispa, R. Br. North temp. zone.

Cyathea, Smith.

C. arborea, J. Sm. Tropical America.

C. beyrichiana. See Hemitelia setosa.

C. dealbata, Sw. New Zealand. Var. tricolor (Col.).

C. Dregei, Kze. Tropical Africa.
Var. Burkei, Hook. South Africa.



Cyathea, Smith-cont.

- C. Hookeri, Thw. Ceylon.
- C. imrayana, Hook. See Tussacii.
- C. insignis, Eaton. West Indies.
- C. medullaris, Sw. New Zealand.
- C. mexicana, Schlecht. Mexico.
- C. princeps, J. Sm. See insignis.
- C. Schanschin, Mart. South America.
- C. serra, Willd. Tropical America.
- C. Smithii, Hook. See Hemitelia Smithii.
- C. spinulosa, Wall. India.
- C. tricolor, Col. See dealbata.
- C. Tussacii, Desv. West Indies.
- C. sinuata, H. & G. Ceylon.

Cyclodium. See Aspidium.

Cyclopeltis. See Aspidium.

Cyrtogonium. See Acrostichum.

Cyrtomium. See Aspidium.

Cyrtophlebium. See Polypodium.

Cystopteris, Bernh.

- C. alpina, Desv. Europe.
- C. bergiana. See Hypolepis.
- C. bulbifera, Bernh. North America.
- C. fragilis, Bernh. Cosmopolitan.

Var. angustata (Sm.).

Var. canariensis (Moore).

Var. dickeana (Moore).

Var. sempervirens (Moore). Madeira.



Cystopteris, Bernh.—cont.

C. montana, Link. Europe.

C. tenuis, Schott. See fragilis.

Darea. See Asplenium.

Davallia, Smith.

- D. aculeata, Sw. West Indies.
- D. affinis, Hook. Tropical and sub-tropical Asia.
- D. alpina, Bl. Malaya, &c.
- D. angustata, Wall. Tropical Asia.
- D. assamica, Baker. Bhotan.
- D. bullata, Wall. Tropical Asia.Var. decora (Moore). Java.Var. Mariesii (Moore). Japan.
- D. canariensis, Sm. Europe and Canaries. Var. alopecuroides.
- D. chærophylla, Wall. East Indies.
- D. ciliata, Hook. Philippines.
- D. concinna, Schr. Tropical Africa and America.
- D. cristata, J. Sm. See strigosa.
- D. decora, Moore. See bullata.
- D. dissecta, J. Sm. Java.
- D. divaricata, Bl. Malaya.
- D. elata, Sw. See elegans.
- D. elegans, Sw. Tropical Asia, &c.
 Var. elata (Sw.).
 Var. Kunzei, Hort. Malaya.
 Var. polydactyla, Hort.
- D. epiphylla, Bl. Java.



Davallia, Smith--cont.

- D. ferruginea, Desv. Madagascar.
- D. fijiensis, Hook. Fiji Islands.
 Var. major, Hort.
 Var. plumosa, Hort.
- D. fœniculacea, Hook. Fiji.
- D. griffithiana, Hook. Himalaya, &c.
- D. hemiptera, Bory. See repens.
- D. heterophylla, Sm. Tropical Asia.
- D. hirsuta, Sw. Japan, &c. Var. angustata.
- D. hirta, Kaulf. Tropical and sub-tropical Asia. Var. cristata.
- D. immersa, Wall. Tropical and sub-tropical Asia.
- D. khasyana, Hook. See strigosa.
- D. kunzeana, Hook. See davallioides.
- D. Lindleyi, Hook. See solida.
- D. Lorrainei, Hance. Malaya.
- D. lonchitidea, Wall. See platyphylla.
- D. lucida, Hort. See solida.
- D. marginalis, Baker. Tropical Asia.
- D. Mariesii, Moore. See bullata.
- D. membranulosa, Wall. East Indies.
- D. mooreana, Masters. See pallida.
- D. multidentata, Hk. Himalaya.
- D. Novæ zealandiæ, Col. New Zealand.
- D. ornata, Wall. See solida.

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Davallia, Smith—cont.

- D. pallida, Mett. Malaya and Polynesia.
- D. parvula, Wall. Malaya.
- D. pedata, Sm. Tropical and sub-tropical Asia.
- D. pentaphylla, Bl. Malaya.
- D. pinnata, Cav. East Indies.
- D. platyphylla, Don. East Indies.
- D. polyantha, Hook. See divaricata.
- D. polypodioides, Don. See Speluncæ.
- D. pulchra, Don. Himalaya.
- D. pycnocarpa, Brack. See pentaphylla.
- D. pyxidata, Cav. Australia.
- D. repens, Desv. East Indies.
- D. retusa, Cav. See Lindsaya retusa.
- D. rhomboidea, Wall. Tropical and sub-tropical Asia.
- D. rubiginosa, Kaulf. Tropical America.
- D. scabra, Don. See marginalis.
- D. solida, Sw. Tropical Asia and Africa.Var. Lindleyi (Hook.).Var. ornata (Wall.).
- D. Speluncæ, Baker. Tropics, ubiquitous.
- D. strigosa, Sw. Tropical and sub-tropical Asia. Var. rhomboidea (Wall.). North India.
- D. tenuifolia, Sw. Tropics of Old World.Var. stricta, Hort.Var. Veitchii, Hort.
- D. trichosticha, Hook. See Speluncæ,

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Davallia, Smith-cont.

- D. Tyermanni, Baker. China.
- D. vestita, Bl. Java and Ceylon.
- D. villosa, Wall. See marginalis.

Dennstædtia. See Dicksonia.

Diacalpe, Blume.

- D. aspidioides, Bl. Tropical Asia.
- D. fæniculacea, C. B.Cl. See Aspidium fæniculaceum, Dicksonia, Smith.
 - D. adiantoides, H. B. K. Tropical America.
 - D. antarctica, Lab. Australia.
 - D. apiifolia, Hook. Andes of Ecuador and Peru.
 - D. Barometz, Link. Sub-tropical Asia.
 - D. berteroana, Hook. Juan Fernandez.
 - D. Billardieri. See antarctica.
 - D. Chamissoi, Hook. fil. Sandwich Islands.
 - D. cicutaria, Sw. Tropical America.
 - D. Culcita, L'Herit. Madeira, Azores, and Spain.
 - D. davallioides, R. Br. Australia.
 - D. Deplanchei, Vieill. New Caledonia.
 - D. fibrosa, Col. New Zealand.
 - D. gracilis, Col. New Zealand.
 - D. Herberti, Moore. Queensland.
 - D. Lathami, Moore. Garden origin.
 - D. Menziesii, H. & B. Sandwich Islands.
 - D. obtusifolia, Willd. See adiantoides.
 - D. princeps, Hort. See Cyathea insignis.

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Dicksonia, Smith—cont.

- D. regalis, Baker. Mexico.
- D. Schiedei, Baker. Tropical America.
- D. sellowiana, *Hook*. South Brazil. Var. karsteniana (*Klotzch*).
- D. spectabilis, Hort. See Wendlandi.
- D. squarrosa, Sw. New Zealand.
- D. tenera, Hort. See apiifolia.
- D. Wendlandi, Baker. Guatemala. Var. Verschaffeltii, Hort.
- D. Youngiæ, C. Moore. New South Wales.

Dictyogramme. See Gymnogramme.

Dictyopteris. See Polypodium.

Didymochlæna, Desv.

- D. lunulata, Desv. Tropics everywhere.
- D. sinuosa, Desv. See lunulata.
- D. truncatula, J. Sm. See lunulata.

Didymoglossum. See Hymenophyllum.

Diplazium. See Asplenium.

Dipteris. See Polypodium.

Disphenia. See Cyathea.

Doodia, R. Br.

- D. aspera, R. Br. Australia. Var. multifida, Hort.
- D. blechnoides, Cun. Australia.
- D. caudata, R. Br. Australia and New Zealand. Var. scabrida.

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Doodia, R. Br.—cont.

D. dives, Kze. Ceylon.

D. kunthiana, Gaud. Sandwich Islands.

D. lunulata, R. Br. See media.

D. media, R. Br. Australia and New Zealand.

Doryopteris. See Pteris.

Drymoglossum, Presl.

D. carnosum, Hook. East Himalaya. Var. subcordatum (Fee.). China and Japan.

D. piloselloides, Presl. Tropical Asia.

Drynaria. See Polypodium.

D. diversifolia, J. Sm. See Polypodium rigidulum.

D. morbillosa, J. Sm. See P. Heracleum.

Egenolfia. See Acrostichum.

Elaphoglossum. See Acrostichum.

Eupodium. See Marattia,

Fadyenia, Hook.

F. prolifera, Hook. West Indies.

Feea. See Trichomanes.

Gleichenia, Smith.

G. circinata, Sw. Australia and New Zealand.

Var. Mendelii, Hort. Australia.

Var. microphylla (R. Br.).

Var. semivestita (Lab.).

Var. Speluncæ (R. Br.),

Gleichenia, Smith-cont.

G. dicarpa, R. Br. Australia and New Zealand.

Var. alpina (R. Br.).

Var. glauca, Moore.

Var. longipinnata, Hort.

- G. dichotoma, Willd. Tropical and sub-tropical regions. Var. nana, Hort.
- G. excelsa, Sm. See longissima.
- G. flabellata, R. Br. Australia, &c.
- G. longipinnata, Hort. See dicarpa,
- G. longissima, Bl. Tropics.
- G. rupestris, R. Br. Australia.
 Var. gigantea, Hort.
 Var. glaucescens, Hort.

Goniophlebium. See Polypodium.

Goniopteris. See Polypodium.

Gymnogramme, Desv.

- G. ampla, Baker. Australia.
- G. calomelanos, Kaulf. Tropical America.

Var. Alstoni, Hort.

Var. chrysophylla (Kaulf.).

Var. cristata, Hort.

Var. laucheana (K. Koch).

Var. grandiceps, Hort.

Var. Martensii (Kaulf.).

Var. Massoni, Hort.

Var. peruviana (Desv.).

Var. Parsonsi, Hort.

G. cantoniensis, Baker. China.

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Gymnogramme, Desv.—cont.

- G. caudiformis, Hook. Tropical Asia.
- G. chrysophylla, Kaulf. See calomelanos.
- G. decomposita, Baker. Garden origin.
- G. decurrens, Hook. See elliptica.
- G. diplazioides, Desv. Tropical America.
- G. dobroydense, Hort. Garden origin.
- G. elegantissima, Hort. See decomposita.
- G. elliptica, Baker. Tropical Asia, &c.
- G. Feei, Hook. Malaya.
- G. fraxinea, Don. See javanica.
- G. gracilis, Hew. Jamaica.
- G. hamiltoniana, Hook. E. Himalaya.
- G. japonica, Hook. Japan, &c.
- G. leptophylla, Desv. Cosmopolitan.
- G. laucheana, K. Koch. See calomelanos.
- G. L'Herminieri, Link. See calomelanos.
- G. linkiana, Kze. See diplazioides.
- G. Mathewsii, Hook. Peru.
- G. Muelleri, Hook. Australia.
- G. multiceps, Hort. See calomelanos.
- G. Parsonsi. See calomelanos.
- G. Pearcei, Moore. Peru. Var. robusta, Hort.
- G. peruviana, Desv. See calomelanos.
- G. pulchella, Linden. Tropical America.
 Var. wettenhalliana, Hort.
 Var. Mayi, Hort.

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Gymnogramme, Desv.—cont.

G. rupestris, Kze. See diplazioides.

G. schizophylla, Baker. Jamaica. Var. gloriosa, Hort.

G. sulphurea, Desv. West Indies. Var. grandiceps, Hort.

G. tartarea, Desv. Tropical America.

G. tomentosa, Desv. South America.

G. Totta, Schlecht. Tropics.

G. triangularis, Kaulf. Vancouver Island, &c.

G. trifoliata, Desv. Tropical America.

G. vestita, Hk. N. Himalaya, &c.

Gymnopteris. See Acrostichum.

Haplopteris. See Vittaria.

Helminthostachys, Kaulf.

H. dulcis, Kaulf. See zeylanica.

H. zeylanica, Hook. Tropical Asia, &c.

Hemidictyum. See Asplenium.

Hemionitis, L.

H. cordata, Roxb. East Indies.

H. palmata, L. Tropical America.

Hemitelia, R. Br.

H. brunoniana, C. B. Cl. Himalaya.

H. capensis, R. Br. S. Africa and Brazil.

H. horrida R. Br. West Indies, &c.

H. setosa, Mett. Brazil.

H. Smithii, Hook. New Zealand.

H. Walkeræ, Hook. Ceylon.

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Humata. See Davallia.

Hymenodium. See Acrostichum.

Hymenolepis. See Acrostichum.

Hymenophyllum, Smith.

H. abruptum, Hook. Jamaica and South America.

H. æruginosum, Carm. Isle of Tristan d'Acunha.

H. asplenioides, Sw. Tropical America, &c.

H. bivalve, Sw. New Zealand.

H. Catherinæ, Hook. Jamaica.

H. caudiculatum, Mart. Tropical America, &c.

H. chiloense, Hook. Isle of Chiloe, &c.

H. ciliatum, Sw. Tropical America.

H. crispum, H. B. K. Tropical America.

H. cruentum, Cav. Chili.

H. demissum, Sw. Australia and New Zealand. Var. nitens, Hort.

H. dilatatum, Sw. New Zealand, &c. Var. forsterianum, (Hort.).

H. elegans, Spr. See lineare.

H. elegantulum, V. D. B. Andes.

H. flabellatum, Lab. Australia and New Zealand.

H. forsterianum, Hort. See dilatatum.

H. fuciforme, Sw. Chili and Juan Fernandez.

H. fucoides, Sw. Tropical America.

H. hirsutum, Sw. Tropical America.

H. javanicum, Spreng. Tropical Asia, &c.

Var. crispatum (Wall.).

Var. flexuosum (Cunn.).

Var. tamariscifolium (Hort.).

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Hymenophyllum, Smith-cont.

- H. lineare, Sw. Tropical America.
- H. magellanicum, Willd. South America.
- H. multifidum, Sw. New Zealand and Pacific Isles.
- H. pectinatum, Cav. Chili, Chiloe, &c. Var. superbum, Hort.
- H. polyanthos, Sw. Tropics everywhere.
- H. pulcherrimum, Col. New Zealand.
- H. rarum, R. Br. Mauritius, New Zealand, &c.
- H. scabrum, A. Rich. New Zealand.
- H. sericeum, Sw. Tropical America.
- H. subtilissimum, Kze. New Zealand.
- H. tamariscifolium, Hort. See javanicum.
- H. tunbridgense, Sw. Ubiquitous. Var. Wilsoni, Hook.
- H. villosum, Col. See polyanthos.

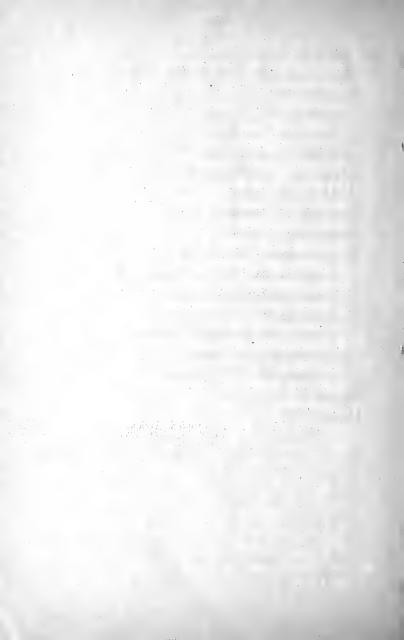
Hypoderris, R. Br.

H. Brownii, J. Sm. Trinidad.

Hypolepis, Bernh.

- H. anthriscifolia, Presl. Tropical Africa.
- H. bergiana, Hook. South Africa.
- H. californica, Hook. California.
- H. distans, Hook. New Zealand.
- H. millefolia, Hook. New Zealand.
- H. repens, Presl. Tropical America.
- H. tenuifolia, Bernh. Polynesia, &c.

Isoloma. See Lindsaya.



Lastrea. See Nephrodium.

L. aristata, Hort. See Aspidium aristatum.

Lecanopteris, Bl.

L. carnosa, Bl. Malaya.

Lepicystis. See Polypodium.

Leptochilus. See Acrostichum.

Leptogramme. See Gymnogramme.

Leptopteris. See Todea.

Leucostegia. See Davallia.

Lindsaya, Dry.

L. davallioides, Bl. Malaya.

L. ensifolia, Sw. Old World Tropics.

L. flabellulata, Dry. Tropical Asia.

L. heterophylla, Dry. Tropical Asia.

L. Lowii. See Acrostichum sorbifolium,

L. reniformis, Dry. Guiana.

L. retusa, Mett. Philippines, &c.

Litobrochia. See Pteris.

Lomaria, Willd.

L. alpina, Spreng. South temperate zone.

 $\begin{array}{cccc} \textbf{L. attenuata}, & Willd. & \textbf{Tropical} & \textbf{and} & \textbf{south temperate} \\ & \textbf{regions.} \end{array}$

Var. gigantea (Kaulf.). South Africa.

Var. heterophylla (Hort.).

L. Banksii, Hook. fil. New Zealand.

L. boryana, Willd. Tropical and south temperate regions. Var. cycadæfolia (Colla). Chili.

L. capensis, Willd. See procera.

ર ન કોઈ ફેર્સ ન લઈકોનો કર્યો હતા. ૧ ફાઇકોલ્ફ ઉભ્યુ હારૂ કુંટ્રાફ્ટ

और लोक्सी र भने हे सम्बंद **, ज्यानिकर,** भारत्य है है है है है

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Lomaria, Willd .- cont.

- L. ciliata, Moore. New Caledonia.
- L. crenulata, Moore. See Germainii.
- L. discolor, Willd. Australia and New Zealand.

Var. bipinnatifida, Hort.

Var. falcata (Spreng).

Var. nuda (R. Br.).

- L. fluviatilis, Spreng. Australia and New Zealand.
- L. Germainii, Hook. Chili.
- L. gibba, Lab. New Caledonia, &c. Var. tincta, Hort.
- L. gigantea, Kaulf. See attenuata.
- L. Gilliesii, Hook. & Grev. See procera.
- L. heterophylla, Hort. See attenuata.
- L. lanceolata, Spr. Australia.
- L. L'Herminieri, Bory. Tropical America.
- L. magellanica, Desv. See boryana.
- L. membranacea, Col. New Zealand.
- L. minor, R. Br. See procera.
- L. neo-caledonica, Hort. See gibba.
- L. nigra, Col. New Zealand.
- L. Patersoni, Spreng. Australia. Var. elongata (Bl.).
- L. procera, Spreng. Australia, &c.
- L. pumila, Raoul. New Zealand.
- L. punctulata, Kze. South Africa.
- L.* Spicant, Desv. North temperate zone.

^{*} For garden varieties, see p. 169.

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Lomaria, Willd .- cont.

L. tuberculata, J. Sm. See procera.

L. zamifolia, Hort. See boryana.

Lomariopsis. See Acrostichum.

L. buxifolium, Fee. See A. sorbifolium, var. buxifolium.

Lonchitis, L.

L. pubescens, Willd. Tropics.

Lopholepis. See Polypodium.

Lophosoria. See Alsophila.

Lorinseria. See Woodwardia.

Lotzea. See Asplenium.

Lygodictycn. See Lygodium.

Lygodium, Sw.

L. circinatum, Sw. See dichotomum.

L. dichotomum, Sw. Tropical Asia.

L. flexuosum, J. Sm. See dichotomum.

L. Forsteri, J. Sm. See reticulatum.

L. japonicum, Sw. Tropies, &c., Old World.

L. lanceolatum, Desv. Madagascar.

L. palmatum, Sw. United States.

L. pinnatifidum, Sw. Tropics, &c., Old World.

L. reticulatum, Schk. Polynesia.

L. scandens, Sw. Tropies, &c., Old World. Var. microphyllum (R. Br.).

L. venustum, Sw. West Indies, &c.

L. volubile, Sw. South America.



Marattia, Smith.

M. alata, J. Sm. West Indies.

M. attenuata, Lab. New Caledonia.

Var. Moorei (Hort.).

M. Ascensionis, J. Sm. See fraxinea, var. purpurascens.

M. cristata, J. Sm. See fraxinea, var. purpurascens,

M. cicutæfolia, Kaulf. Brazil.

M. Cooperi, Hort. See attenuata.

M. elegans, Endl. See fraxinea.

M. fraxinea, Sm. Tropics, &c., Old World. Var. purpurascens (De Vriese.). Ascension Island.

M. Kaulfussii, J. Sm. Tropical America.

M. laxa, Kze. Mexico.

M. Moorei, Hort. See attenuata.

M. sorbifolia, Bory. See fraxinea.

Meniscium, Schreb.

M. angustifolium, Willd. West Indies, &c.

M. deltigerum. See Acrostichum virens.

M. reticulatum, Sw. Tropical America. Var. macrophyllum (Kze.).

Var. oligophyllum, Hort.

M. serratum, Cav. Tropical America.

M. simplex, Hook. Tropical and sub-tropical Asia.

Mertensia. See Gleichenia.

Mesochlæna. See Didymochlæna.

Microlepia. See Davallia.

Microsorum. See Polypodium.

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Mohria, Sw.

M. caffrorum, Desv. South Africa. Var. achilleæfolia, Hort.

M. thurifraga. See caffrorum.

Monogramme, Sch.

M. seminuda, Baker. West Indies, &c.

Myriopteris. See Cheilanthes.

Neottopteris. See Asplenium.

Nephrodium, Rich.

N. æmulum, Baker. Britain and Madeira.

N. affine, Lowe. See Filix-mas.

N. albopunctatum, Desv. Guinea, Natal, &c.

N. atratum (Wall.). See hirtipes.

N. atrovirens (J. Sm.). See decompositum.

N. Blumei, Hook. See intermedium.

N. boryanum, Baker. Himalaya.

N. calcaratum, Hook. East Indies.

N. canum, Baker. Himalaya.

N. catopteron, Hook. South Africa.

N. chinense, Baker. China and Japan.

N. chrysolobum, Fée. Brazil and Colombia.

N. cicutarium, Baker. Tropics, ubiquitous.

N. confluens, F. Muell. Queensland.

N. coruscum, Hort. See Aspidium varium.

N. cristatum, Mich. Europe and North America. Var. uliginosum, Newm.

N. cuspidatum, Baker. West Indies and Ceylon.

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Nephrodium, Rich .-- cont.

- N. cyatheoides, Kaulf. Tropical Asia.
- N. decompositum, R. Br. Australia and New Zealand. Var. glabellum (Cunn.). Var. Shepherdi (Kze.).
- N. decurrens, Baker. Tropical Asia.
- N. decursivo-pinnatum, Baker. China and Japan.
- N. deltoideum, Desv. Tropical America.
- N. denticulatum, Hook. Tropical America.
- N. dilatatum, Desv. See spinulosum.
- N. dissectum, Desv. Tropics of Old World. Var. membranifolium (Presl.).
- N. divergens, Willd. See effusum.
- N. effusum, Baher. Tropical America. Var. divergens (Willd.).
- N. elongatum, H. & G. See Filix-mas.
- N. eriocarpum, D.C. See odoratum.
- N. erythrosorum, Hook. Japan. Var. prolificum (Maxim.).
- N. extensum, Hook. Ceylon.
- N.* Filix-mas, Desv. Temperate regions, ubiquitous. Var. elongatum (Hook. & Gr.). Sub-tropical regions. Var. schimperianum (Hochst.). Simla.
- N. floridanum, Hook. Louisiana and Florida.
- N. Fænisecii, Lowe. See æmulum.
- N. glabellum, Cunn. See decompositum.

^{*} For garden varieties, see p. 171.

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Nephrodium, Rich .- cont.

- N. goldieanum, Hook. North America.
- N. Grisebachii, Baker. Cuba.
- N. hirtipes, Hook. Tropical Asia.
- N. hispidum, Hook. New Zealand.
- N. incisum, Baker. West Indies.
- N. intermedium, Baker. Tropical Asia.
- N. irregulare, Brack. See latifolium.
- N. Jenmani, Baker. Jamaica.
- N. lacerum, Baker. Japan.
- N. latifolium, Baker. Polynesia.
- N. lepidum, Moore. Polynesia.
- N. leuzeanum, Hook. Tropical Asia.
- N. macrophyllum, Baker. Tropical America. Var. calvatum, Hort.
- N. marginale, Mich. North America.
- N. membranifolium, Presl. See dissectum.
- N. molle, Desv. Ubiquitous. Var. polydactylon, Hort. Tropies. Var. violascens, Link.
- N. montanum, Baker. Europe.
- N. nevadense, Baker. North America.
- N. noveboracense, Desv. North America.
- N. odoratum, Baker. Tropical Asia, &c.
- N. Oreopteris, Desv. See montanum.
- N. patens, Desv. Tropics, &c.
- N. polymorphum, Baker. Tropical Asia.

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Nephrodium, Rich.—cont.

N. prolificum, Maxim. See erythrosorum.

N. pubescens, Desv. West Indies.

N. recedens, Hook. Ceylon, &c.

N. recurvum, Hort. See æmulum.

N. Richardsi, Baker. New Caledonia. Var. multifidum, Hort.

N. rigidum, Desv. North temp. zone. Var argutum (Kaulf.).

N. rodigasianum, Morr. Samoa.

N. scabrosum, Baker. Nilgherries.

N. setigerum, Baker. Japan and tropical Asia. Var. cristatum, Hort.

N. setosum, Baker. Java.

N. Sieboldii, Hook. Japan.

N. Sloanei, Baker. Tropical America.

N. sparsum, Don. Tropical Asia.

N.* spinulosum, Desv. North temp. zone. Var. dilatatum (Desv.).

N. subtriphyllum, Baker. Tropical Asia.

N. tenericaule, Hook. See setigerum.

N. Thelypteris, Desv. North and South temp. zones.

N. Thwaitesii, Baker. Ceylon.

N. Trimeni, Beddome. Ceylon.

N. truncatum, Presl. East Indies, &c.

N. unitum, R. Br. Tropical and sub-tropical regions.

^{*} For garden varieties, see p. 175.

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Nephrodium, Rich .-- cont.

N. varians, Fée. Trinidad.

N. variolosum, Baker. Malaya.

N. villosum, *Presl.* Tropical America. Var. lachnopodium (*J. Sm.*).

Nephrolepis, Schott.

N. acuta, Presl. Tropics everywhere.

N. Bausei, Hort. Garden origin.

N. biserrata, Schott. See acuta.

N. cordifolia, Baker. Tropics everywhere.

Var. compacta, Hort.

Var. pectinata (Schott).

Var. philippensis (Hort.).

Var. tuberosa (Presl).

N. davallioides, Kze. Java. Var. furcans, Hort.

N. Duffii, Moore. Australia.

N. ensifolia, Presl. See acuta.

N. exaltata, Schott. Tropics everywhere. Var. Barteri, Hort. West Tropical Africa. Var. hirsutula, Presl.

N. pectinata, Schott. See cordifolia.

N. philippinensis, Hort. See cordifolia.

N. Pluma, Moore. Madagascar.

N. ramosa, Moore. Tropies, Old World.

N. recurvata, Hert. See exaltata.

N. rufescens, Presl. Tropics.
Var. tripinnatifida, Baker. Solomon Islands.

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Nephrolepis, Schott.—cont.

N. tuberosa, Presl. See cordifolia.

N. undulata, J. Sm. See cordifolia.

Neurocallis. See Acrostichum.

Niphobolus. See Polypodium.

N. rupestris, Spr. See Polypodium serpens.

Niphopsis. See Polypodium.

Nothochlæna, R. Br.

N. affinis, Hook. Mexico, &c.

N. eckloniana, Kze. South Africa.

N. ferruginea, Hook. South America and West Indies.

N. flavens, Moore. Tropical America.

N. Hookeri, Lowe. See nivea.

N. lævis, M. & G. See sinuata.

N. lanuginosa, Desv. South Europe, &c.

N. Marantæ, R. Br. South Europe, &c.

N. nivea, Desv. Tropical America.

N. rufa, Presl. See ferruginea.

N. sinuata, Kaulf. Tropical America.

N. sulphurea, J. Sm. California, Mexico, &c.

N. trichomanoides, R. Br. Jamaica, Cuba.

Odontosoria. See Davallia.

Oleandra, Cav.

O. articulata, Cav. Tropical Africa.

0. nodosa, Presl. Tropical America.

Olfersia. See Acrostichum,

Onoclea, L.

- 0. germanica, Willd. Europe and North America.
- O. pennsylvanica, Willd. See germanica.
- 0. sensibilis, L. North America.

Onychium, Kaulf.

- 0. auratum, Kaulf. Himalaya.
- japonicum, Kze. Japan and Himalaya. Var. multisectum, Henders.
- O. lucidum, Spr. See japonicum.

Ophioglossum, L.

- 0. pendulum, L. Tropics, Old World.
- 0. vulgatum, L. Ubiquitous.

Osmunda, L.

- O. cinnamomea, L. North America, &c.
- 0. claytoniana, L. North America, &c.
- O. interrupta, Mich. See claytoniana.
- O. japonica, Thunb. See regalis.
- 0. javanica, Bl. Java, &c.
- 0. regalis, L. North and South temp. regions.

Var. corymbifera, Hort.

Var. cristata, Hort.

Var. japonica (Thunb). Japan, &c.

Var. palustris, Hort.

Var. purpurascens, Hort.

O. spectabilis, Willd. See regalis.

Paragramma. See Polypodium.

Pellæa, Link.

P. adiantifolia, Hort. See hastata.

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Pellæa, Link.-cont.

P. alabamensis, Baker. Alabama.

P. andromedæfolia, Fée. California and South Africa.

P. atropurpurea, Link. North America.

P. brachyptera, Baker. California.

P. cordata, J. Sm. Mexico.

Var. flexuosa (Link).

P. densa, Hook. North America.

P. falcata, Fée. Tropical Asia and Australia.

P. geraniæfolia, Fée. Tropics.

P. gracilis, Hook. North temp. zone.

P. hastata, Link. South Africa.

P. intramarginalis, J. Sm. Mexico.

P. involuta, Baker. East Africa.

P. mucronata, Eaton. Calfornia, &c.

P. paradoxa, Hook. Australia.

P. ternifolia, Fée. Tropical America.

P. wrightiana, Hook. See mucronata.

Phegopteris. See Polypodium.

P. lachnopoda, J. Sm. See Nephrodium amplum.

P. submarginalis, J. Sm. See N. caripense.

P. trichodes, J. Sm. See N. setigerum.

Phlebodium. See Polypodium.

Phymatodes. See Polypodium.

P. vulgare, Presl. See Polypodium Phymatodes.

Platycerium, Desv.

P. æthiopicum, Hook. Tropical Africa.

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Platycerium, Desv.--cont.

P. alcicorne, Desv. Australia. Var. Hillii (Moore).

- P. grande, J. Sm. Tropical Asia and North Australia.
- P. Stemmaria, Beauv. See æthiopicum.
- P. Wallickii, Hook. Malaya.
- P. Willinckii, Moore. Java.

Platyloma. See Pellæa.

Pleocnemia. See Nephrodium.

Pleopeltis. See Polypodium.

Pleuridium. See Polypodium.

Pœcilopteris. See Acrostichum.

Polybotrya. See Acrostichum.

Polypodium, L.

- P. adnascens, Sw. Tropical Asia. Var. lævis (J. Sm.).
- P. adnatum, Kze. South America.
- P. albopunctatissimum, Linden. See crassifolium.
- P. albosquamatum, Bl. Malaya.
- P. alpestre, Hoppe. North temp. zone. Var. flexile (Newm.). Scotland.
- P. amœnum, Wall. North India.
- P. amphostemon, Kze. See angustifolium.
- P. angustatum, Sw. Tropical Asia.
- P. angustifolium, Sw. Tropical America.
- P. appendiculatum, Wall. East Himalaya.
- P. areolatum, H. B. K. See aureum.

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Polypodium, L.-cont.

P. aureum, L. Tropical America.

Var. areolatum (H. B. K.).

Var. glaucum, Hort.

Var. pulvinatum (Link).

Var. sporodocarpon (Willd.).

- P. Billardieri, R. Br. Australia and New Zealand.
- P. biseriale, Baker. Peru, &c.
- P. calcareum, Sm. See Dryopteris.
- P. californicum, Kaulf. California.
- P. calvatum, Baker. China.
- P. cambricum, L. See vulgare.
- P. cameroonianum, Hook. Cameroon Mountains.
- P. Catherinæ, J. Sm. See loriceum.
- P. caudiceps, Moore. Formosa.
- P. chnoodes, Spreng. Tropical America.
- P. clathratum, C. B. Clarke. Simla.
- P. colpodes, Kze. See plesiosorum.
- P. conjugatum, Lam. Tropical Asia.
- P. contiguum, Wall. See longifolium.
- P. coronans, Wall. See conjugatum.
- P. crassifolium, L. Tropical America. Var. albopunctatissimum (Linden). Brazil.
- P. cuspidatum, Bl. See persicæfolium.
- P. dissimile, Hook. See chnoodes.
- P. distans, Raddi. See diversifolium.
- P. diversifolium, Sw. Tropical America.

Polypodium, L.—cont.

- P. drepanum, Hook. Madeira.
- P. Dryopteris, L. North temp. zone. Var. robertianum (Hoffm.).
- P. effusum. See Nephrodium.
- P. ensifolium, Willd. See angustifolium.
- P. elasticum, Rich. Tropical America.
- P. fraxinifolium, Jacq. See diversifolium.
- P. fossum, Baker. Malaya.
- P. Gardneri, Mett. Ceylon.
- P. glaucophyllum, Kze. West Indies. Var. glaucum, Hort. Var. viride, Hort.
- P. griseum, Liebm. Mexico and Guatemala.
- P. guatemalense, Hook. Tropical America.
- P. harpeodes, Link. See loriceum.
- P. hastæfolium, Sw. West Indies.
- P. hastatum, Thunb. Japan, &c.
- P. hemionitideum, Wall. Tropical Asia.
- P. Heracleum, Kze. Tropical Asia.
- P. hexagonopterum, Mich. North America.
- P. hirsutum, Sw. Brazil.
- P. hymenodes, Bl. See superficiale.
- P. inæquale, Moore. See guatemalense.
- P. incanum, Sw. South Africa and America.
- P. incurvatum, Bl. Malaya, &c.
- P. intermedium, H. & A. See californicum.

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Polypodium, L.-cont.

- P. irioides, Lam. Tropies and sub-tropies, Old World.
- P. juglandifolium, Don. Himalaya. Var. tenuicauda (Hook.).
- P. karwinskianum, A. Br. See plebeium.
- P. lachnopus, Wall. N. India.
- P. lævigatum, Cav. Tropical America.
- P. lanceolatum, L. Tropics.
- P. leiorhizon, Wall. Tropical Asia.
- P. lepidopteris, Kze. Tropical America. Var. sepultum (Kaulf.).
- P. Lingua, Sw. Tropical Asia, &c.Var. corymbiferum, Hort.Var. Heteractis (Mett.). Himalaya.
- P. longissimum, Bl. Tropical Asia.
- P. longifolium, Mett. Malaya.
- P. loriceum, L. Tropical America. Var. pinnatifidum, Baker. Var. vacillans (Link).
- P. lycopodioides, L. Tropics everywhere.
 Var. maximum, Hort.
 Var. owariense (Desv.). Tropical Africa.
 Var. salicifolium (Willd.). Tropical America.
 Var. squamulosum, Kaulf. Brazil.
- P. macrourum, Baker. Australia.
- P. megalodus, Schk. See tetragonum.
- P. membranaceum, Don. N. India.
- P. menisciifolium, L. & F. Brazil,

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Polypodium, L.-cont.

- P. meyenianum, Schott. Philippines.
- P. musæfolium, Bl. Malaya.
- P. multilineatum, Wall. N. India.
- P. neriifolium, Schk. Tropical America.
- P. nigrescens, Bl. Malaya, &c.
- P. nigripes, Hook. Venezuela.
- P. nitidum, J. Sm. See lycopodioides.
- P. owariense, Desv. See lycopodioides.
- P. pectinatum, L. Tropical America. Var. Paradiseæ (L. & F.). Var. plumosum, Hort.
- P. peltideum, Link. See Phymatodes.
- P. pennigerum, Forst. New Zealand.
- P. percussum, Cav. Tropical America.
- P. persicæfolium, Desv. Tropical Asia. Var. grandidens, Kze. Java.
- P. Phegopteris, L. North temp. zone. Var. cristatum, Hort.
- P. Phyllitidis, L. Tropical America. Var. brevifolium (Link.). Var. obscurum (Mett.).
- P. Phymatodes, L. Tropics, Asia and Africa.
 Var. longipes (Link.).
 Var. terminale (Link.).
- P. pictum, Baker. Polynesia.
- P. piloselloides, L. Tropical America.
- P. plebeium, Schlecht. Mexico.

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Polypodium, L.—cont.

- P. plesiosorum, Kze. Tropical America. Var. appendiculatum (Klotzsch).
- P. Plumula, H. B. K. See elasticum.
- P. preslianum, Link. See neriifolium.
- P. propinquum, Wall. Tropical Asia.
- P. pulvinatum, Link. See aureum.
- P. pustulatum, Forst. Australia and New Zealand.
- P. quercifolium, L. Tropical Asia, &c.
 - . repens, L. Tropical America. Var. undulatum, Hort.
- P. reptans, Sw. Tropical America. Var. asplenioides, (Sw.).
- P. rigidulum, Sw. N. Australia, &c.
- P. robertianum, Hoffm. See Dryopteris.
- P. rostratum, Hook. N. India.
- P. rubidum, Hook. Philippines.
- P. rupestre, Bl. Java, &c.
- P. Scouleri, H. & G. N.W. America.
- P. sepultum, Kaulf. See lepidopteris.
- P. serpens, Forst. Australia.
- P. simplex, Sw. See lineare.
- P. spectrum, Kaulf. Sandwich Isles.
- P. sphærocephalum, Wall. See angustatum.
- P. sporodocarpon, Willd. See aureum.
- P. squamulosum, Kaulf. See lycopodioides.
- P. stigmaticum, Presl. Tropical America.

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Polypodium, L.—cont.

- P. subauriculatum, Bl. Tropical Asia &c. Var. Reinwardtii (Kze.).
- P. subpetiolatum, Hook. Central America.
- P. superficiale, Bl. East Indies.
- P. suspensum, L. Tropical America.
- P. tæniosum, Hort. See angustifolium.
- P. tenellum, Forst. Australia, &c.
- P. tenuicauda, Hook. See juglandifolium.
- P. tetragonum, Sw. Australia, &c. Var. megalodus (Schk.).
- P. tricuspe, Sw. Japan.
- P. vacillans, Link. See loriceum.
- P. vacciniifolium, L. and F. Tropical America. Var. album, Hort.
- P. venosum, Desv. See stigmaticum.
- P. verrucosum, Wall. Malaya.
- P. *vulgare, L. North temp. zone.
- P. Xiphias, Moore. Polynesia.
- P. Zippelii, Bl. See heterocarpum.

Polystichum. See Aspidium.

Prosaptia. See Davallia.

Pseudathyrium. See Polypodium.

Pteris, L.

- P. aquilina, L. Cosmopolitan.
- P. arguta, Ait. South Europe and Azores.

^{*} For garden varieties, see p. 175.

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Table of the basic section

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Pteris, L.—cont.

- P. argyræa, Moore. See quadriaurita.
- P. Bausei. See semipinnata.
- P. biaurita, L. Tropics.

 Var. memoralis variegata.
- P. collina, Raddi. See palmata.
- P. crassipes, Ag. See gigantea.
- P. crenata, Sw. See ensiformis.
- P. cretica, L. Tropical and sub-tropical regions.
 Var. albolineata, Hort.
 Var. cristata, Hort.
 Var. Mayi, Hort.
 Var. nobilis, Hort.
- P. elata, Ag. Tropical America.
- P. ensiformis, Burm. Tropical Asia. Var. Victoriæ, Hort. Var. cristata, Hort.
- P. flabellata, Thunb. South Africa.
- P. Ghiesbreghtii, J. Sm. See laciniata.
- P. gigantea, Willd. West Indies.
- P. glaucovirens, Linden. See quadriaurita.
- P. heterophylla, L. West Indies. Var. internata (Moore).
- P. incisa, Thunb. Tropical and sub-tropical regions.
- P. laciniata, Willd. Tropical America. Var. Ghiesbreghtii, J. Sm.
- P. leptophylla, Sw. Brazil.

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Pteris, L.—cont.

- P. longifolia, L. Tropical and sub-tropical regions. Var. Mariesii, Hort. Japan.
- P. ludens, Wall. Tropical Asia.
- P. moluccana, Bl. Malaya, &c.
- P. memoralis, Willd. See biaurita.
- P. nobilis, Hort. See palmata.
- P. Ouvrardii, Hort. See serrulata.
- P. palmata, Willd. Tropical America, &c.Var. collina (Raddi).Var. nobilis, Hort.
- P. patens, Hook. Tropics of Old World.
- P. podophylla, Sw. Tropical America, &c.
- P quadriaurita, Retz. Tropics. Var. argyræa (Moore). Var. rubricaulis (J. Sm.). Var. tricolor (Hort.).
- P. robusta, Hort. See aculeata.
- P. sagittifolia, Raddi. Brazil.
- P. scaberula, A. Rich. New Zealand.
- P. semipinnata, L. Tropical and sub-tropical Asia. Var. Bausei, Hort.
- P. serrulata, L. fil. China and Japan.

Var. compacta, Hort.

Var. cristata, Hort.

Var. densa, Hort.

Var. gracilis, Hort.

Var. gloriosa, Hort.

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Pteris, L.--cont.

P. serrulata, L. fil. China and Japan--cont.

Var. Leyi, Hort.

Var. maxima, Hort.

Var. Ouvrardii, Hort.

Var. undulata, Hort.

P. straminea, Mett. Chili.

P. sulcata, Link. See quadriaurita.

P. tremula, R. Br. Australia.

Var. elegans, Hort.

Var. kingiana (Endl.).

Var. smithiana, Hort.

P. umbrosa, R. Br. Australia.

P. undulata, Moore. Fiji.

P. Victoriæ, Hort. See ensiformis.

P. wallichiana, Ag. Himalaya.

Pteropsis. See Tænitis.

Pycnopteris. See Nephrodium.

Rhipidopteris. See Acrostichum.

Saccoloma. See Davallia.

Sadleria, Kaulf.

S. cyatheoides, Kaulf. Sumatra and Sandwich Islands.

Sagenia. See Nephrodium.

Salpichlæna. See Lomaria.

Schellolepsis. See Polypodium.

Schizocæna. See Cyathea.

Schizoloma. See Lindsaya.



Scolopendrium, Sm.

S. brasiliense, Kze. Brazil.

S. Krebsii, Kze. See Lomaria punctulata.

S. *vulgare, Sm. North temperate zone.

Selliguea. See Gymnogramme.

Sitolobium. See Davallia.

Soromanes. See Acrostichum Cænopteris.

Stegania. See Lomaria.

Stenochlæna. See Acrostichum.

Stenolomana. See Davallia.

Stenosemia, See Acrostichum.

Struthiopteris. See Onoclea.

Taeniopsis. See Vittaria.

Thyrsopteris, Kze.

T. elegans, Kze. Juan Fernandez.

Todea, Willd.

T. africana, Willd. See barbara.

T. barbara, Moore. South Africa, Australia, and New Zealand.

T. Fraseri, H. & G. Australia, &c. Var. wilkesiana (Brack.). Polynesia.

T. grandipinnula, Moore. See Moorei.

T. hymenophylloides, R. & L. New Zealand.

T. Moorei, Baker. Lord Howe's Island.

T. pellucida, Carm. See hymenophylloides.

T. rivularis, Sieb. See barbara.

^{*} For garden varieties, see p. 179.



Todea, Willd .-- cont.

- T. superba, Col. New Zealand.
- T. wilkesiana, Brack. See Fraseri.

Trichomanes, L.

- T. alatum, Sw. Tropical America. Var. attenuatum (Hook.).
- T. angustatum, Carm. See tenerum.
- T. apiifolium, Presl. Polynesia, &c.
- T. auriculatum, Bl. Tropical Asia, &c.
- T. Bancroftii, H. & G. Tropical America.
- T. bipunctatum, Poir. See Filicula.
- T. Bojeri, H. & G. See cuspidatum.
- T. boschianum, Sturm. See radicans.
- T. crispum, L. Tropical America.
- T. cuspidatum, Willd. Mauritius.
- T. elongatum, Cunn. See rigidum.
- T. exsectum, Kze. Chili, &c.
- T. Filicula, Bory. Tropical Asia and Africa.
- T. fœniculaceum, Bory. Mauritius, &c.
- T. humile, Forst. Polynesia, &c.
- T. javanicum, Bl. Malaya.
- T. Kaulfussii, Hook. fil. West Indies.
- T. luschnathianum, Presl. See radicans.
- T. maximum, Bl. Malaya and Polynesia.
- T. meifolium, Hort. See apiifolium.
- T. membranaceum, L. Tropical America. u 85419.

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Trichomanes, L.—cont.

- T. muscoides, Sw. Tropics.
- T. parviflorum, Poir. See fœniculaceum.
- T. parvulum, Poir. Tropics of Old World.
- T. Petersii, A. Gray. Alabama.
- T. pinnatum, Sw. Tropical America.
- T. Prieurii, Kze. Tropical America.
- T. pulcherrimum, Col. New Zealand.
- T. pyxidiferum, L. Tropics everywhere. Var. olivaceum (Kze.). Tropical America.
- T. quercifolium, H. & G. See pusillum.
- ${f T.}$ radicans, Sw. Tropical and sub-tropical regions.

Var. alabamense, A Gray.

Var. Andrewsii, Newm. Ireland.

Var. boschianum (Sturm.).

Var. crispum, Hort.

Var. dilatatum, Hort.

Var. frondosum (Fée.).

Var. luschnathianum (Presl). Brazil.

- T. reniforme, Forst. New Zealand.
- T. reptans, Sw. Tropical America.
- T. rigidum, Sw. Tropics everywhere. Var. elongatum (Cunn.). New Zealand.
- T. scandens, L. Central America.
- T. spicatum, Hedw. West Indies.
- T. strictum, Menz. New Zealand.
- T. tenerum, Spreng. Tropical America.
- T. trichoideum, Sw. Tropical America.
- T. venosum, R. Br. Australia.



Vittaria, Smith.

V. elongata, Sw. Tropics of Old World.

V. lineata, Sw. Tropical America.

V. scolopendrina, Thwaites. Ceylon, &c.

V. stipitata, Kze. Colombia to Peru.

Woodsia, R. Br.

W. glabella, R. Br. North temperate zone.

W. ilvensis, R. Br. North temperate zone.

W. oregana, Eat. Rocky Mountains.

W. polystichoides, Eat. Japan.

W. scopulina, Eat. North America.

Woodwardia, Smith.

W. angustifolia, Sm. See areolata.

W. orientalis, Sw. Japan, &c.

W. radicans, Sw. North temperate zone. Var. Brownii, Hort.



II. FERN ALLIES.

Azolla, Lam.

- A. caroliniana, Willd. Tropical and sub-tropica America.
- A. pinnata, R. Br. Australia.

Equisetum, L.

- E. arvense, L. North temperate and arctic regions.
- E. fluviatile, Sm. See limosum.
- E. giganteum, L. Tropical America.
- E. hyemale, L. North temperate and arctic regions.
- E. limosum, L. North temperate and arctic regions.
- E. maximum, Lam. North temperate regions.
- E. palustre, L. North temperate and arctic regions.
- E. pratense, Ehrh. North temperate and arctic regions.
- E. robustum, A. Br. North America.
- E. scirpoides, Michx. North temperate and arctic regions.
- E. silvaticum, L. North temperate and arctic regions.
- E. Telmateia, Ehrh. See maximum.
- E. variegatum, Schleich. North temperate and arctic regions.

Isoetes, L.

- I. Duriæi, Bory. Mediterranean region.
- I. lacustris, L. Europe and North America.
 Var. Morei, Moore. Ireland.

Lycopodium, L.

- L. alpinum, L. Europe.
- L. complanatum, L. Europe.
- L. clavatum, L. Europe.
- L. Hippuris, Desv. See squarrosum.

Lycopodium, L.—cont.

- I. Hookeri, Wall. See squarrosum.
- L. nummularifolium, Bl. Malaya, &c.
- L. Phlegmaria, L. Tropics.
- L. Selago, L. Europe.
- L. squarrosum, Forst. Tropical Asia.
- L. strictum, Baker. Madagascar.
- L. taxifolium, Sw. Tropical America.

Marsilea, L.

- M. Drummondii, A. Br. Australia. Var. salvatrix (Hans.).
- M. hirsuta, R. Br. Australia.
- M. macropus, Englm. Texas.
- M. quadrifoliata, L. Europe and Asia.
- M. salvatrix, Hans. See Drummondii.

Pilularia, L.

P. globulifera, L. Europe.

Psilotum, Sw.

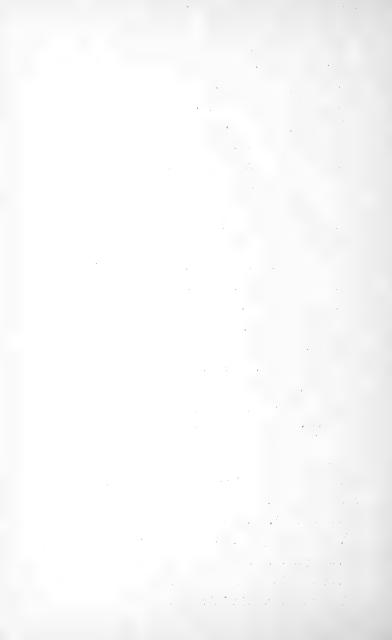
P. triquetrum, Sw. Tropics.

Var. mascarenica, Hort.

Var. nudum (Griseb.).

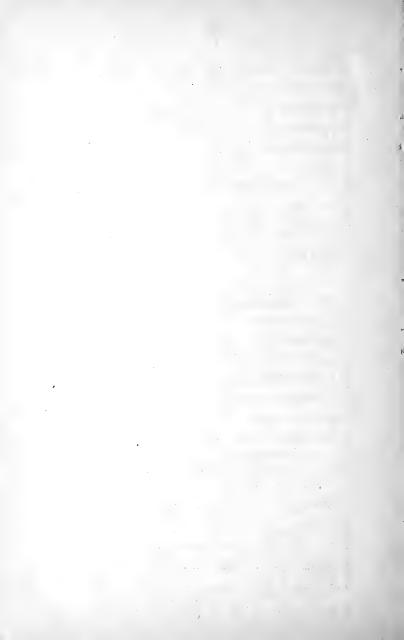
Salvinia, Schreb.

- S. natans, Hoffm. Sub-tropics of Old World. Selaginella, Spring.
 - S. africana, A. Br. See Vogelii.
 - S. albonitens, Spring. West Indies.
 - S. albospica, Hort. See tenophylla.
 - S. amæna, Hort. See caulescens.
 - S. apus, Spring. North America.



Selaginella, Spring-cont.

- S. argentea, Spring. See caulescens.
- S. atroviridis, Spring. Tropical Asia.
- S. bakeriana, Bailey. Queensland.
- S. Braunii, Baker. China.
- S. cæsia, Hort. See uncinata.
- S. canaliculata, Baker. Tropical Asia.
- S. caudata, Spring. See canaliculata.
- S. caulescens, Spring. Tropical Asia. Var. amœna, Hort. Var. minor, Hort.
- S. cognata. See Lobbii.
- S. concinna, Spring. Mascaren Isles, &c.
- S. conferta, Moore. See canaliculata.
- S. convoluta, Spring. Tropical America.
- S. cuspidata, Link. Tropical America. Var. elongata, Spring.
- S. denticulata, Link. Europe.
- S. denticulata, Hort. See kraussiana.
- S. dichroa, Hort. See Vogelii.
- S. Douglasii, Spring. United States.
- S. emiliana, Hort.
- S. erythropus, Spring. Tropical America. Var. minor, Hort.
- S. filicina, Spring. See hæmatodes.
- S. flabellata, Spring. Tropics.
- S. flagellifera, Hort. See plumosa.
- S. flexuosa, Spring. South Brazil.



Selaginella, Spring-cont.

- S. Galeottei, Spring. Mexico.
- S. grandis, Moore. Borneo.
- S. Griffithii, Spring. Tropical Asia.
- S. hæmatodes, Spring. Tropical America.
- S. inæqualifolia, Spring. Tropical Asia. Var. bellula (Moore). See var. perelegans. Var. perelegans (Moore).
- S. involvens, Spring. China and Japan. Var. texta, Baker. Var. variegata, Hort.
- S. kraussiana, A. Br. South Africa, Azores, &c.
 Var. aurea, Hort.
 Var. Brownii, Hort.
 Var. Stansfieldii, Hort.
 Var. variegata, Hort.
- S. lævigata, Baker. Madagascar. Var. Lyallii (Spring).
- S. lepidophylla, Spring. Tropical America.
- S. leptostachya, Bailey. See bakeriana.
- S. Lyallii, Spring. See lævigata.
- S. Martensii, Spring. Mexico.
 Var. divaricata, Hort.
 Var. stolonifera, A. Br.
 Var. variegata, Hort.
- S. Mettenii, A. Br. Garden origin.
- S. molliceps, Spring. Upper Guinea.
- S. mutabilis, Hort. See serpens.
- S. patula, Spring. West Indies.
- S. pilifera, A. Br. Texas.

Selaginella, Spring-cont.

- S. plumosa, Baker. Tropical Asia. Var. flagellifera, Hort.
- S. radiata, Baker. Tropical America.
- S. radicata, Spring. See plumosa.
- S. rubella, Moore. Garden origin.
- S. rubricaulis, Hort. See suberosa.
- S. serpens, Spring. West Indies.
- S. stenophylla, A. Br. Mexico. Var. albospica, Hort.
- S. suberosa, Spring. Tropical Asia.
- S. texta, Hort. See involvens.
- S. uncinata, Spring. China.
- S. usta, Vieill. New Caledonia.
- S. Victoriæ, Moore. Borneo.
- S. viridangula, Spring. Polynesia.
- S. viticulosa, Klotzsch. Tropical America.
- S. Vogelii, Spring. Tropical Africa. Var. dichroa (Hort.).
- S. Wallichii, Spring. Tropical Asia.
- S. Warscewiczii, Klotzsch. See radiata.
- S. Willdenovii, Baker. Tropical Asia.

Tmesipteris, Bernh.

- T. Forsteri, Endl. See tannense.
- T. tannense, Bernh. Australia and Polynesia.



III. APPENDIX.

Cultural forms of British Ferns.

Adiantum, L.

A. Capillus, veneris, L.

Var. admirable, Lowe.

Var. concinnum, Hort.

Var. cornubiense, Moore.

Var. daphnites, Lowe.

Var. fissum, Moore.

Var. grande, Moore.

Var. imbricatum, Lowe.

Var. laciniatum, Hort.

Var. magnificum, Fraser.

Var. Mariesii, Moore.

Var. maximum, Moore.

Var. obrienianum, Birkenhead.

Var. optandrum, Lowe.

Var. perfectum, Padley.

Var. Roperi, Hort.

Var. semilunatum, Lowe.

Var. tenuis, Hort.

Var. undulatum, Moore.

Aspidium, Swartz (Polystichum).

A. aculeatum, Sw. Europe.

Var. acrocladon, Lowe.

Var. Barnesii, Jones.

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Aspidium, Swartz (Polystichum) - cont.

A. aculeatum, Sw. Europe—cont.

Var. Braunii, Hort.

Var. capitatum, Jones.

Var. cristatum, Moore.

Var. cruciatum, Jones.

Var. " polydactylon.

Var. dubium, Woll.

Var. grandiceps, Jones.

Var. Kitsonae, Jones.

Var. meritum, Lowe.

Var. multifidum, Woll.

Var. proliferum, Woll.

Var. pulcherrimum, Jones.

Var. subcristatum, Jones.

A. angulare,* Willd. Europe.

Var. acuto-dissectum, Carbonell.

Var. acuto-divaricatum, Carbonell.

Var. acuto-divisilobum, Carbonell.

Var. acutilobum, Woll.

Var. " acutum, Lowe.

Var. " proliferum, Moore.

Var. alatum, Moore.

Var. ,, pterophorum, Moore.

Var. apuaeforme, Moore.

Var. assimile, Jones.

Var. athyroides, Woll.

Var. Bayliae, Lyell.

Var. brachiatum, Moore.

Var. " cristatum, Jarvis.

^{*} This is a sub-species of A. aculeatum, but for garden purposes it is more convenient to treat it as a species.



Aspidium, Swartz (Polystichum)-cont.

A. angulare, Willd. Europe—cont.

Var. Buckleae, Lowe.

Var. calomelanos, Jones.

Var. capitatum, Clap.

Var. caudatum, Carbonell.

Var. Claphami, Jones.

Var. concinnum, Moore.

Var. confluens, Moore.

Var. congestum, Moore.

Var. conspicuilobum, Lowe.

Var. ,, acutum, Carbonell.

Var. cristatum, Moore.

Var. ,, biceps, Carbonell.

Var. ,, gracile, Woll.

Var. cruciato-polydactylum, Jones.

Var. cruciatum, Lowe.

Var. , majus, Jones.

Var. ,, proliferum, Hort.

Var. curvato-pinnum, Carbonell.

Var. decompositum, Moore.

Var. ,, densum, Carbonell.

Var. ,, grande, Jones.

Var. ,, grandiceps, Jones.

Var. ,, plumosum, Jones.

Var. ,, polydactylum, Jones.

Var. ,, robustum, Jones.

Var. ,, splendens, Jones.

Var. decurrens, Moore.

Var. densum, Moore.

Var. ,, polydactylum, Jones.

Var. divisilobum, Woll.

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Aspidium, Swartz (Polystichum) -- cont.

A. angulare, Willd. Europe—cont.

Var. divisilobum acutum, Jones.

Var. , cristatum, Ivery.

Var. ,, decorum, Jones.

Var. ,, deltoideum, Jones.

Var. " densum, Carbonell.

Var. ,, elegans, Jones.

Var. " foliosum, Jones.

Var. " grandiceps, Jones.

Var. ,, laxum, Jones.

Var. ,, lineare, Jones.

Var. , multifidum, Jones.

Var. ,, polydactylum, Jones.

Var. ,, proliferum, Woll.

Var. ,, reflexum, Jones.

Var. ,, robustum, Jones.

Var. ,, splendidissimum, Jones.

Var. flexuosum, Woll.

Var. ,, polydactylum, Jones.

Var. folioso-decompositum, Jones.

Var. foliosum, Woll.

Var. ,, bulbiferum, Lowe.

Var. frondosum, Jones.

Var. ,, decompositum, Jones.

Var. ,, polydactylum, Jones.

Var. gracile, Woll.

Var. grandiceps, Moore.

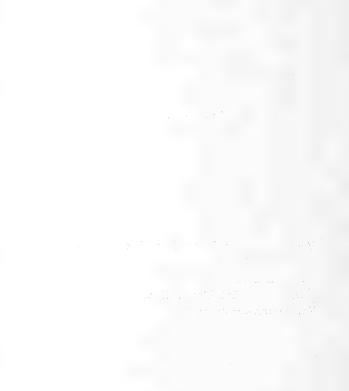
Var. grandidens, Jones.

Var. " minus, Sim.

Var. ,, truncatum, Woll.

Var. imbricatum, Moore.

Var. ,, congestum, Jones.



Aspidium, Swartz (Polystichum)-cont.

A. angulare, Willd. Europe—cont.

Var. inciso-acutum, Jones.

Var. inciso-laciniatum, Jones.

Var. incisum, Woll.

Var. , variegatum, Woll.

Var. interruptum, Woll.

Var. Kitsonae, Moore.

Var. laciniatum, Woll.

Var. lanceolatum, Moore.

Var. latifolium, Woll.

Var. ,, grandiceps, Jones.

Var. laxo-crispum, Jones.

Var. lineare, Moore.

Var. " minus, Jones.

Var. ,, polydactylum, Jones.

Var. lineatum, Moly.

Var. multifidum, Woll.

Var. ,, densum, Jones.

Var. multilobum, Woll.

Var. ,, deltoideum, Jones.

Var. " densum, Jones.

Var. ,, latum, Jones.

Var. ,, laxum, Jones.

Var. ,, multifidum, Jones.

Var. , ovale, Woll.

Var. ,, polydactylum, Jones.

Var. ,, revolvens, Jones.

Var. oxyphyllum, Moore.

Var. parvissimum, Moore.

Var. pendens, Jones.

Var. perserratum, Jones.



Aspidium, Swartz (Polystichum)-cont.

A. angulare, Willd. Europe--cont.

Var. plumosum, Woll.

Var. ,, elegantissimum, Jones.

Var. polydactylum, Moore.

Var. ,, capitatum, Jones.

Var. ,, cruciatum, Lowe.

Var. ,, grande, Jones.

Var. ,, grandiceps, Jones.

Var. ,, laxum, Jones.

Var. ,, multifidum, Jones.

Var. " grandiceps, Jones.

Var. ,, robustum, Jones.

Var. proliferum, Moore.

Var. ,, densum, Carbonell.

Var. ,, holeanum, Moore.

Var. pulchellum, Woll.

Var. pulcherrimum, Moore.

Var. pulchrum, Moore.

Var. ramo-varians, Jones.

Var. remoto-decurrens, Woll.

Var. revolvens, Moore.

Var. revolvens grandiceps, Jones.

Var. ,, polydactylum, Jones.

Var. scalptum, Carbonell.

Var. Stansfieldii, Lowe.

Var. stipatum, Woll.

Var. stipitatum, Moore.

Var. stipulatum, Jones.

Var. subplumosum, Woll.

Var. Thompsonae, Moore.

Var. torto-cristatum, Padley.

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Aspidium, Swartz (Polystichum)—cont.

A. angulare, Willd. Europe—cont.

Var. tripinnatum, Moore.

Var. ,, acutum, Moore.

Var. ,, densum, Jones.

Var. ,, laciniatum, Jones.

Var. ,, polydactylum, Jones.

Var. venustum, Moore.

Var. Widworthyi, Carbonell.

Var. Wollastoni, Lowe.

Var. " majus, Hort.

A. Lonchitis, Sw. North temperate zone.

Asplenium, L.

A. Adiantum-nigrum, L. Europe, &c. Var. acutum, Pollini.

A. Ceterach, L. Europe.

Var. major, O'Kelly.

A. Filix-femina, Bernh. Europe.

Var. abasiphyllum, Lowe.

Var. acrocladon, Moore.

Var. " densum, Stansf.

Var. adpresso-cristatum, Jones.

Var. angustatum, Lowe.

Var. apuæforme, Barnes.

Var. axminsterense, Lowe.

Var. canaliculatum, Stansf.

Var. cancellatum, Sim.

Var. ,, cristatum, Jones.

Var. ceratophyllum, Mapp.

Var. clarissima, Jones.

Var. caudiculatum, Mapp.

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Asplenium, L.—cont.

A. Filix-femina, Bernh. Europe-cont.

Var. congestum-cristatum, Stansf.

Var. congestum findlayanum, Stansf.

Var. ,, grandiceps, Stansf.

Var. conoides, Appleby.

Var. ,, cristatum, Stansf.

Var. cornutum, Carbonell.

Var. coronatum, Lowe.

Var. corymbiferum, Moore.

Var. Craigii, Moore.

Var. " angustatum, Jones.

Var. , laciniatum, Jones.

Var. crispato-laciniatum, Jones.

Var. crispum, Moore.

Var. ,, coronatum, Jones.

Var. , cristatum, Carbonell.

Var. cristatum, Woll.

Var. ,, capitatum, Carbonell.

Var. , caudatum, Lowe.

Var. ,, corymbiferum, Carbonell.

Var. ,, defecto-furcillans, Mapp.

Var. ,, densum, Carbonell.

Var. " magnificum, Lowe.

Var. " reflexum, Carbonell.

Var. cruciato-capitatum, Carbonell.

Var. ,, -coronatum, Carbonell.

Var. , -cristatum, Jones.

Var. ,, -gracile, Jones.

Var. " -grandiceps, Jones.

Var. ,, -magnificum, Jones.

Var. " -multifidum, Stansf.

Asplenium, L.-cont.

A. Filix-femina, Bernh. Europe—cont.

Var. cruciatum, Jones.

Var. ,, angustum, Lowe.

Var. curtum, Woll.

Var. ,, cristatum, Stansf.

Var. daphnites, Glave.

Var. ,, capitatum, Glave.

Var. defecto-gracile, Mapp.

Var. diffidum, Jones.

Var. diffiso-multifidum, Moore.

Var. digitale, Jones.

Var. " capitatum, Jones.

Var. , purpureum, Jones.

Var. Elworthii, Moore.

Var. Fieldæ, Moore.

Var. , minus, Jones.

Var. fissidens, Moore.

Var. , elegans, Mapp.

Var. flabellatum, Jones.

Var. flabelliceps, Carbonell.

Var. flexuosum, Woll.

Var. foliosa-crispatum, Carbonell.

Var. " -cristatum, Woll.

Var. Frizellæ, Moore.

Var. ,, cristatum, Jones.

Var. " multifidum, Barnes.

Var. ,, nanum, Ivery.

Var. furcans, Moore.

Var. Girdlestoni, Ivery.

Var. glomeratum, Moore.

Var. ,, grandiceps, Jones.

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Asplenium, L.—cont.

A. Filix-femina, Bernh. Europe—cont.

Var. gracile, Moore.

Var. grammicon, Lowe.

Var. grandiceps, Moore.

Var. ,, globosum, Sim.

Var. " minus, Carbonell.

Var. " pumilum, Sim.

Var. Harrisæ, Lowe.

Var. Howardæ, Moore.

Var. imbricatum, Carbonell.

Var. incisum, Newm.

Var. inæquale, Woll.

Var. " cristatum, Jones.

Var. interruptum, Moore.

Var. irregulare, Moore.

Var. kalothrix, Lowe.

Var. kilmorensis, Carbonell.

Var. laceratum, Moore.

Var. laciniatum, Moore.

Var. , angustatum, Jones.

Var. ,, congestum, Stansf.

Var. ,, Craigii, Jones.

Var. , cristatum, Lowe.

Var. ,, elegans, Stansf.

Var. ,, flabelliforme, Jones.

Var. , furcans, Jones.

Var. ,, ramulosum, Stansf.

Var. Lowæ, Lowe.

Var. " capitatum, Lowe.

Var. minimum, Birkenhead.

Var. Moorei, Jones.

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Asplenium, L.—cont.

A. Filix-femina, Bernh. Europe-cont.

Var. multiceps, Moore.

Var. multifidum, Moore.

Var. ,, cristatum, Jones.

Var. " laxum, Jones.

Var. , tenue, Jones.

Var. nodosum, Jones.

Var. " multifidum, Jones.

Var. ,, nanum, Jones.

Var. ,, ramulosum, Jones.

Var. , truncatum, Jones.

Var. orbiculatum, Lowe.

Var. pannosum, Moore.

Var. , cristatum, Jones.

Var. Parsonsi, Moore.

Var. paucidentatum, Mapp.

Var. ,, cristatum, Mapp.

Var. pectinatum, Moore.

Var. " Stableri, Mapp.

Var. percristatum, Lowe.

Var. perfectum, Carbonell.

Var. phylomanes, Mapp.

Var. plumosum, Moore.

Var. ,, divaricatum, Moore.

Var. ,, Edwardsi, Sim.

Var. " elegans, Parsons.

Var. ,, Jacksoni, Carbonell.

Var. " kalothrix, Lowe.

Var. " multifidum, Stansf.

Var. polydactylum, Moore.

Var. ,, grandiceps, Jones.

Var. Pritchardii, Stansf.



Asplenium, L.—cont.

A. Filix-femina, Bernh. Europe-cont.

Var. " cristatum, Stansf.

Var. proteoides, Lowe.

Var. proteum, Clap.

Var. " cristatum, Jones.

Var. pulcherrimum, Jones.

Var. ,, cristatum, Jones.

Var. Pulleri, Moore.

Var. ramosum ramo-cristatum, Jones.

Var. rectangulare, Moore.

Var. refractum, Moore.

Var. reflexum, Woll.

Var. reflexum cristatum, Jones.

Var. regale, Moore.

Var. rhæticum, Moore.

Var. ,, reflexum, Mapp.

Var. rotundatum, Woll.

Var. ,, lunulatum, Carbonell.

Var. Ryleyæ, Carbonell.

Var. sagittatum, Moore.

Var. " lunulatum, Carbonell.

Var. setigerum, Jones.

Var. Stableri, Lowe.

Var. Stansfieldii, Lowe.

Var. stipatum, Moore.

Var. " capitatum, Carbonell.

Var. subplumosum, Padley.

Var. " cristatum, Carbonell.

Var. todeoides, Stansf.

Var. tortile, Moore.

Var. torto-cristatum, Carbonell.

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Asplenium, L.—cont.

A. Filix-femina, Bernh. Europe—cont.

Var. "-grandiceps, Carbonell.

Var. truncato-pinnulum, Jones.

Var. unco-cristatum, Jones.

Var. " -ramulosum, Stansf.

Var. variegatum, Wol.

Var. Vernonæ, Jervis.

Var. ,, corymbiferum, Stansf.

Var. ,, crispum, Stansf.

Var. ,, cristatum, Mapp.

Var. Victoriæ, Lowe.

Var. Williamsii, Jones.

A. Trichomanes, L. Temperate regions.

Var. cristatum, Moore.

Var. incisum, Moore.

Var. trogyense, Lowe.

C. fragilis, Bernh. Europe.

Var. angustata, Smith.

Var. dickieana, Moore.

Lomaria, Willd.

L. Spicant, Desv. Europe.

Var. apiculata, Moore.

Var. caudata, Moore.

Var. concinna, Moore.

Var. congesta, Barnes.

Var. lineare, Moore.

Var. multifurcata, Moore.

Var. plumosa, Barnes.

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Lomaria, Willd .-- cont.

L. Spicant, Desv. Europe—cont.

Var. ramo-cristata, Woll.

Var. trinervia, Moore.

Nephrodium, Rich. (Lastrea.)

N. æmulum, Baker. Europe.

Var. cristatum, Jones.

N. Filix-mas, Desv. Europe.

Var. attenuatum, Padley.

Var. Barnesii, Moore.

Var. Bollandæ, Moore.

Var. capitatum, Carbonell.

Var. Clowesii, Moore.

Var. crispatissimum, Jones.

Var. crispulatum, Hort.

Var. crispum, Sim.

Var. , gracile, Lyell.

Var. crista-galli, Carbonell.

Var. cristatum, Lowe.

Var. , angustatum, Moore.

Var. " caudatum, Ivery.

Var. cronkleyense, Lowe.

Var. depauperatum, Padley.

Var. digitatum, Lowe.

Var. Ellacombei, Lowe.

Var. elongatum, Moore.

Var. erosum, Clowes.

Var. " crispatum, Carbonell.

Var. fluctuosum, Moore.

Var. furcans, Moore.

Var. grandiceps, Sim.

Var. Ingrami, Moore.



Nephrodium, Rich. (Lastrea)—cont.

N. Filix-mas, Desv. Europe—cont.

Var. interruptum, Moore.

Var. intermedium, Carbonell.

Var. Jervisii, Moore.

Var. lineare, Woll.

Var. Marsdeniæ, Lowe.

Var. multiforme, Barnes.

Var. paleaceum, Don. (pseudo-mas, Woll.)

Var. " Belperi, Lowe.

Var. " cristatum, Moore.

Var. " intermedium, Sim.

Var. ,, furcillatum, Woll.

Var. " Lyelli, Lowe.

Var. ,, ramo-furcillatum, Woll.

Var. ,, recurvum, Moore.
Var. , revolvens, Woll.

Var. polydactylum, Lowe.

Var. propinguum, Woll.

Var. ,, cristatum, Moore.

Var. ,, excurrens, Moore.

Var. , Gottii, Lowe.

Var. ,, gracile, Moore.

Var. ,, grandiceps, Moore.

Var. ,, laciniatum, Lowe.

Var. ,, parviceps, Barnes.

Var. " polydactylum, Barnes.

Var. Pulleri, Jones.

Var. ramo-cristatum, Stansf.

Var. ,, -furcillatum, Carbonell.

Var. ramosum, Barnes.

Var. ramulosissimum, Woll.

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Nephrodium, Rich. (Lastrea)—cont.

N. Filix-mas, Desv. Europe—cont. Var. revolvens, Humphreys.

Var. subcristatum, Carbonell.

Var. variegatum, Lowe.

N. montanum, Baker. Europe. Var. cristatum, Woll.

N. spinulosum, Desv. Europe.

Var. dilatatum (Desv.).

Var. ,, angusti-pinnulum, Sim.

Var. ,, calomelanos, Jones.

Var. ,, crispato-cristatum, Jones.

Var. , crispum, Woll.

Var. , grandiceps, Barnes.

Var. ,, Howardæ, Jones.

Var. lepidotum, Moore.

Osmunda, L.

0. regalis, L. Europe, &c.

Var. cristata, Moore.

Var. palustris, Hort.

Var. purpurascens, Moore.

Polypodium, L.

P. alpestre, Hoppe. Europe. Var. flexile, Newm. Scotland.

P. Phegopteris, L. Europe.

Var. cristatum, Jones. Var. strictum, Barnes.

P. vulgare, L. Europe.

Var. acuto-serratum, Jones.

Var. attenuatum, Moore.

Var. bifidum, Francis.

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P. vulgare, L. Europe—cont.

Var. bifido-cristatum, Mapp.

Var. cambricum (L.).

Var. ,, Barrowi, Barnes.

Var. cornubiense, Moore.

Var. ,, elegantissimum, Stansf.

Var. " Fowleri, Lowe.

Var. cornutum, Jones.

Var. crenatum, Moore.

Var. crispum, Jones.

Var. cristatum, Moore.

Var. " Morleyi, Jones.

Var. dentatum, Moore.

Var. dentatum Barnesii, Moore.

Var. , Whitakeri, Moore

Var. divisilobum, Hort.

Var. Elworthii, Ivery.

Var. falcatum, Jones.

Var. folioso-abruptum, Barnes.

Var. glomeratum, Moly.

Var. irregulare, Moore.

Var. marginatum, Moore.

Var. marginato-attenuatum, Jones.

Var. multifido-cristatum, Stansf.

Var. omnilacerum, Moore.

Var. , truncatum, Wilson.

Var. pulcherrimum, Moore.

Var. ramosum, Moore.

Var. ,, Hillmani, Carbonell.

Var. semilacerum (Link.).

Var. ,, obtusum, Dadds.

Var. , truncatum, Barnes.

Var. serratum, Moore.



Polypodium, L.—cont.

P. vulgare, L. Europe-cont.

Var. suprasoriferum, Woll.

Var. trichomanoides, Backh.

Var. truncatum, Lowe.

Pteris, L.

P. aquilina, L. Cosmopolitan.

Var. cristata, Moore.

Scolopendrium, Smith.

S. vulgare, L. Europe.

Var. aduncum, Moore.

Var. angustifrons, Ivery.

Var. bimarginatum, Moore.

Var. bimarginato-tenue, Jones.

Var. bulbiferum, Lowe.

Var. chelæfrons, Woll.

Var. concavum, Lowe.

Var. Coolingii, Lowe.

Var. cornutum, Lowe.

Var. corrugatum, Lowe.

Var. crispum, Grey.

Var. ,, Cowburni, Lowe.

Var. " densum, Sim.

Var. " fimbriatum, Lowe.

Var. " grande, Lowe.

Var. ,, latum, Moore.

Var. " majus, Moore.

Var. " multifidum, Jones.

Var. " reflexum, Wills.

Var. ,, robustum, Jones.

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Scolopendrium, Smith-cont.

S. vulgare, L. Europe-cont.

Var. crispum, serratum, Jones.

Var. crista-galli, Woll.

Var. cristatum, Moore.

Var. ,, variegatum, Carbonell.

Var. cristatum cristato-digitatum, Sim.

Var. cuspis, Carbonell.

Var. elegantissimum, Hort.

Var. fissidens, Woll.

Var. fisso-crenatum, Jones.

Var. fissum, Moore.

Var. Fowleri, Hort.

Var. grandiceps, Jones.

Var. Hankeyi, Lowe.

Var. illustre, Lowe.

Var. involvens, Mapp.

Var. ,, minus, Hort.

Var. iveryanum, Ivery.

Var. Kelwayi, Lowe.

Var. laceratum, Moore.

Var. labyrinthum, Lowe.

Var. lonchophorum, Moore.

Var. macrosorum, Moore.

Var. Moonæ, Lowe.

Var. Malcolmsonæ, Stansf.

Var. marginale, Hort.

Var. marginatum, Moore.

Var. , fissum, Lowe.

Var. marginato-angustum, Clap.

Var " -multifidum, Moore.

Scolopendrium, Smith-cont.

S. vulgare, L. Europe—cont.

Var. marginato-muricatum, Jones.

Var. muricatum, Lowe.

Var. muricato-cristatum, Woll.

Var. omnilacerum, Lowe.

Var. ,, truncatum, Hort.

Var. peraferens, Woll.

Var. pulcherrimum, Hort.

Var. ramoso-minus, Jackson.

Var. ramulosissimum, Woll.

Var. scalpturatum, Moore.

Var. submarginato-fissum, Wills.

Var. supralineatum, Moore.

Var. undulatum, Moore.

Var. ,, capitatum, Hort.

Var. , cochleatum, Jones.

Var. ,, marginatum, Jones.

Var. ,, reflexum, Hort.

Var. Veloisii, Moore.

Var. variable, Lowe.

Var variegatum, Woll.

Var. ,, aureolum, Lowe.









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